

For repair information of the tape deck see Service Manual SCA 4.4 (4822 725 23509)

12 V ⊝--||



4822 725 23543





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TECHNICAL DATA

Power supply

Supply voltage:

13.2 V nominal

Quiescent current:

≤2 mA (after 20 sec. with only perm.+ and GND connected)

Maximum current:

4.5 A (Radio mode, 4x4 W output)

Tuner

FM frequency range:

Europa

87.5-108 MHz

FM search grid:

MW frequency range:

US Europa 87.7--107.9 MHz 500 KHz (auto search) / 100 KHz (manual search)

US 600 KHz (auto search) / 200 KHz (manual search)

Europa

531–1602 KHz

US (AM)

530-1710 KHz

MW search grid:

Europa

9 KHz (auto search / manual search)

US (AM)

10 KHz (auto search / manual search)

LW frequency range:

Europa only

153-279 KHz

LW search grid:

Europa only

9 KHz (auto search) / 1 KHz (manual search)

Presets:

6 (FM1), 6 (FM2), 6 (FMA), 6 (MW), 6 (LW)

Input impedance:

75 Ω (use the respective dummy aerial for measurements and alignments)

Cassette deck SCA 4.4

Number of tracks:

2 x 2

Tape speed:

4.75 cm/s

Winding time: Wow & flutter:

≤ 100 s (C60) ≤ 0.3 %

S/N ratio (Dolby off):

FE 48 dB weighted

CR 53 dB weighted

Amplifier

Output:

4 x 16 W (at 10% THD)

Bass:

± 12 dB (4 x 0.5 W at 90 Hz), 2 dB steps

Treble:

 \pm 12 dB (4 x 0.5 W at 10 KHz), 2 dB steps

Telefon mute:

> -40 dB

CONTROLS

- Push: ON/OFFTurn: Volume adjust
- Eject cassette (also when set is switched OFF)
- Track 1 (TAPE 1) or track 2 (TAPE 2) selection during CASSETTE mode
- ® Dolby selection (® Dolby off, ® Dolby B or ® Dolby C)
- AM AM band selection between MW and LW
- FM Short press (<2s): FM band selection between FMI, FMII and FM-AST Long press (>2s): store 6 strongest stations in FM-AST

MODE RADIO-, CD- or CASSETTE- mode selection (CD operation only if CD changer is connected)

- Radio mode: Scan strongest radio stations (with increasing frequency)

 CD mode Short press (<2s): Scan all titles of the selected disc

 CD mode Long press (>1.5s): Enable Random Play (shuffle) over all discs
- Decrease BASS, TREBLE or SPEED VOLUME, FADER to rear, BALANCE to left
- Short press (< 2s): Selects tone control (Bass, Treble, Fader, Balance, Speed volume)

 Long press (>2s): Linear mode enabled (all tone controls in the center position, Speed volume = 3)
- + Increase BASS, TREBLE or SPEED VOLUME, FADER to front, BALANCE to right
- 1...6 Radio mode Short press (<2s): Select stored station 1...6 Radio mode - Long press(>2s): Store actual station on preset 1...6 CD mode: Select disc
- RDS Short press (<2s): Switch on/off Radio Data System (PI, PS, TP, TA, EON, AF, PTY data are evaluated) Long press (>2s): Toggle between REG ON and REG OFF (regional program reception enable/disable)
- TP Radio mode: Switch ON/OFF Traffic Program (only stations with TP or EON are selected)

 Cassette+CD mode if TP ON: Interrupts playback and switches to traffic announcement
- <m> Radio mode: >: search up, <: search down, m + >: manual search up, m + <: manual search down
 - Cassette mode: >: MSS forward, <: MSS backward (mutes > 3s are detected) m + > or > + >: fast forward wind, m + < or < + <: fast rewind
 - CD mode: >: next track, <: previous track (n times n tracks)
 - m + > or <: fast playback forward or backward as long as > or < is pressed

The following functions can also be controlled by the BMW steering wheel control via I-BUS:

- Volume adjust
- Preset scrolling up / down
- automatic search up / down
- Cassette MSS up / down
- CD track up / down

THEFT PROTECTION

The theft protection is realised via I-BUS communication. After every power interruption the set waits for an I-BUS telegram. During that period or if no data are received the display shows - DISABLED - and set can not be controlled.

Every valid I-BUS telegram puts the set into operation.

The active theft protection is indicated by a LED which is blinking when ignition is OFF.

For service purposes you can connect the I-BUS line of another BMW module (e.g. IRIS display 22SY686) to the I-BUS pin (connectorblock pin 7). You have to pull-up this I-BUS connection with a resistor 4K7 to power supply (12 V).

You can also enable the set with help of the EEPROM TOOL KIT 4822 395 10297. Follow the instructions in the file 795 23.txt of the respective eeprom data diskette.

WARNING

All ICs and many other semi-conductors are susceptible to electrostatic discharges (ESD).

Careless handling during repair may reduce life time of these components drastically.



ATTENTION

Static Sensitive Devices Handle Only at Static Safe Work Stations.

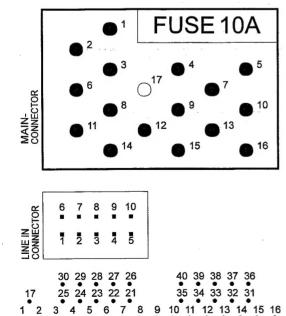
10: GALA (SDVC)

When repairing, make sure that you are connected with the same potential as the mass of the set via a wrist wrap with resistance. Keep components and tools also at this potential.

Appropriate ESD equipment can be ordered under followings service codes:

Anti-static table mat large 1200 x 650 x 1,25 mm small 600 x 650 x 1,25 mm
 Connection box (1 MΩ)
 Complete kit ESD3
 Wristband tester
 4822 466 10958
 4822 320 11307
 4822 310 10671
 4822 344 13999

CONNECTORBLOCK



2: FR+	>17	11: FR-	> 4
3: RL+	> 3	12: RL-	> 7
4: TEL.MUTE	>10	13: EXT.ILL.	>11
5: IGN.KEY	>13	14: RR-	> 6
6: RR+	> 2	15: GND	> 9
7: I-BUS	>12	16: SWITCHED+	>15
8: FL-	> 5	17: N.C.	> 8
9: PERM.+	>16		
1: EXT.INL+ 2: EXT.INR+ 3: N.C. 4: N.C. 5: N.C.	>30 >29 >28 >27 >26	6: EXT.IN L- 7: EXT.IN R- 8: N.C. 9: N.C. 10: N.C.	>25 >24 >23 >22 >21

1: FL+

SERVICE MODE

Enter: Switch set ON and press m button within 8 sec. for 8 sec., set will switch to tuner mode with TP OFF.

When the set is in 'DISABLE' status (see chapter THEFT PROTECTION) the serial number is the only

parameter which is shown.

Leave: Switch set OFF.

With the + and - keys you can scroll the different parameters (written values are for instance):

Serial number

T1003456 SN

Software version

SV 12-96 67

Speed volume

3

(default)

GAL

with < and > keys or the preset buttons speed volume can be changed

Station indicators

When reaching this mode you can control the set as usual in normal tuner mode with buttons m, <, >, 1, 2, 3, 4, 5, FM, AM and RDS. The station dependend parameters will be displayed. With preset button 6 you can scroll different station indicators:

Freq./fieldstrength/qual.

103.2 15 14

fieldstrength range 0-15 (corresponds to 0-60dBμV on FM and AM)

quality range 0-15 (weighted quality for AF consideration,

15=best quality)

Freq./fieldstrength/qual. (RDS OFF)

-03.215

0

when RDS is OFF the quality is not evaluated

Program service name

PS **BAYERN 3**

Program identification (PI/TP/TA/PTY) D318

- 0 12

Qual./fieldstrength/noise/mulipath/freq. FF00

103.2

207

values are shown in hexadecimal format

Freq./fieldstrength (for AM)

AM

14

depending on the waveband MW or LW i.s.o.

AM

TA volume

TP-V 0

(default)

with < and > or preset 1 and 2 keys TA volume can be changed (-9 to +9)

Display test

Preset 1

Chessboard pattern

Preset 2

Chessboard pattern invers

Preset 3

all segments shining

Preset 4

all segments dark

Area

AREA EUROPE

with < and > keys the set can be switched to area USA or USA+TP, refer to technical data for differences (USA+TP=USA with TP enabled)

DEFAULT SETTINGS (Delivery status)

Volume:

100 mV (FM, $\Delta F = 22.5 \text{ KHz}$, $f_{mod} = 1 \text{ KHz}$)

Tone: Speed volume: all tone settings in center position

TA volume:

3 0

Radio mode:

FM1, preset 1 (89.3 MHz), RDS ON, REG ON, TP OFF

when switching to AM: MW, preset 1 (630 KHz)

Cassette mode:

NOR direction (TAPE 1), Dolby OFF

CHECKS AND ALIGNMENTS

	ITEM	SIGNAL	TUNE/ADJUST	POINT OF MEASURE	VALUE
	<u>1</u> .	Check demodulated FM level			
	1.1	FM 98MHz, 1mV, Δf=22.5KHz, AF=1KHz	FM 98MHz	M201 (MPX)	AC 200mV +/- 50mV
	1.2	FM 98MHz, 1mV, Δf=3.75KHz, AF=57KHz			AC 25mV +25mV/-10mV
					710 20111 7201117, 701117
	<u>2</u>	Check noise limited sensitivity, S/N 26dB			
	2.1	FM 98MHz, 4μV, Δf=22.5KHz, AF=1KHz	FM 98MHz	Connectorblock (Speaker)	Referencelevel (0 dB)
	2.2	FM 98MHz, 4μV, Δf=22.5KHz, without modulation		(opound)	- 26 dB
	2.3	MW 999KHz, 30µV, 30% mod., AF=1KHz	MW 999KHz	Connectorblock (Speaker)	Referencelevel (0 dB)
	2.4	MW 999KHz, 30μV, without modulation		(opound)	- 26 dB
	2.5	LW207KHz, 55μV, 30% mod., AF=1KHz	LW 207KHz	Connectorblock (Speaker)	Referencelevel (0 dB)
	2.6	LW207KHz, 55μV, without modulation		(Spound)	- 26 dB
					20 05
	<u>3</u>	Check noise and pause detector			
	3.1	FM98MHz, 1mV, $\Delta f=75$ KHz, AF=40KHz	FM 98MHz	M200 (NOISE)	2.5V +/- 0.3V
	3.2	FM98MHz, 1mV, Δf=5KHz, AF=1KHz	FM 98MHz	M202 (PAUSÉ)	0.6V +/- 0.1V
~					3.3.1
	<u>4</u>	Check search sensitivities			
	4.1	FM98MHz, 13μ V, Δ f=22.5KHz, AF=1KHz	Autosearch	Tuning stop within first run	
	4.2	MW 999KHz, 40μV, 30% mod., AF=1KHz	Autosearch	Tuning stop within first run	
	4.3	LW207KHz, 40μV, 30% mod., AF=1KHz	Autosearch	Tuning stop within first run	
7					
. 5	<u>5</u>	Align search sensitivities *			
2	5.1	FM98MHz, 22dBμV, without modulation	FM 98MHz	Store FM level into EEPROM	
	5.2	MW 999KHz, 32dBμV, without modulation	MW 999KHz	Store AM level into EEPROM	
			·		
	<u>6</u>	Align Dolby level			
	6.1	CC 200nWb/m, 400Hz (SBC419)	3737 (R) + 3742 (L)	M155 (R) + M154 (L), (CASS_R + CASS_L	300mV

^{*} The alignment of search sensitivities is only possible with the EEPROM TOOL KIT 4822 395 10297 and the update diskette 4822 901 10025. Follow the instructions on screen and read the information in the files 'README.TXT' and '795_23.TXT'.

IC96 TUNER, IF BUFFER,

+5V0/+5 +8V5/+3

SCA DECK,

MSS, DOLBY

SOFAC, CD INPUT, AF POWER STAGE

RDS, PAUSE, AQF

TUNER AF

FM IF

HL+/HL-VR+/VR-

HR+/HR-

NF_CD_L

NF_CD_R

NF_CD_GND

+5V0/+5 +8V5/+3 +14V4/+1

POWER SUPPLY, ON/OFF LOGIC,

+5V0/+4 +5V0/+5

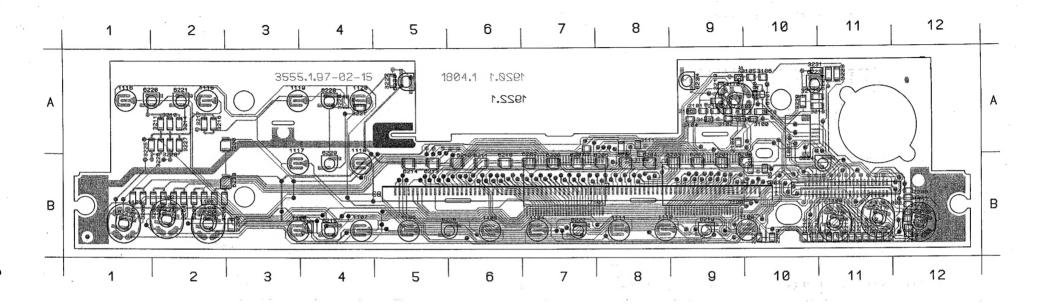
+8V5/+3

+14V4/+1

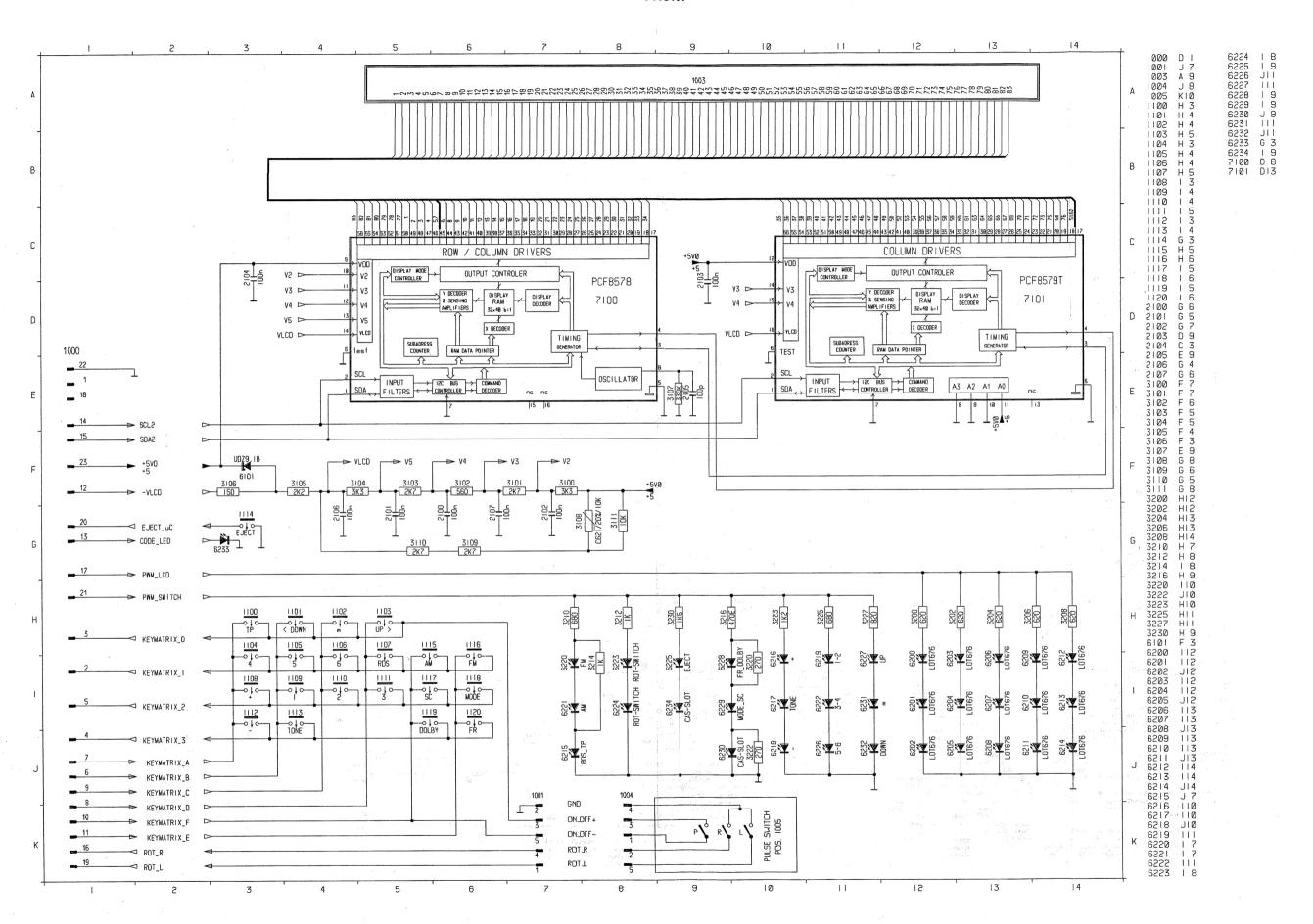
CONNECTORBLOCK

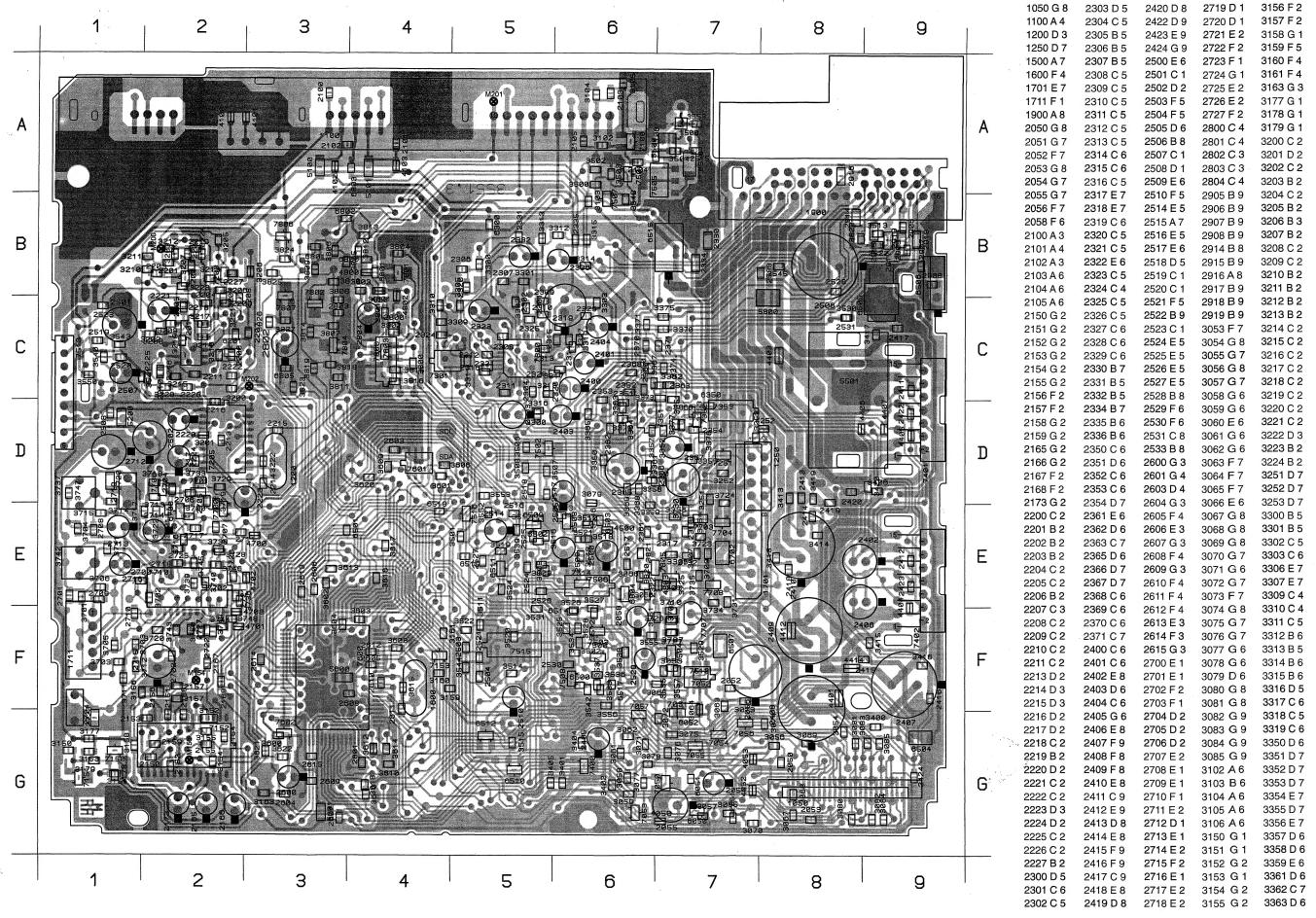
22 DC 795

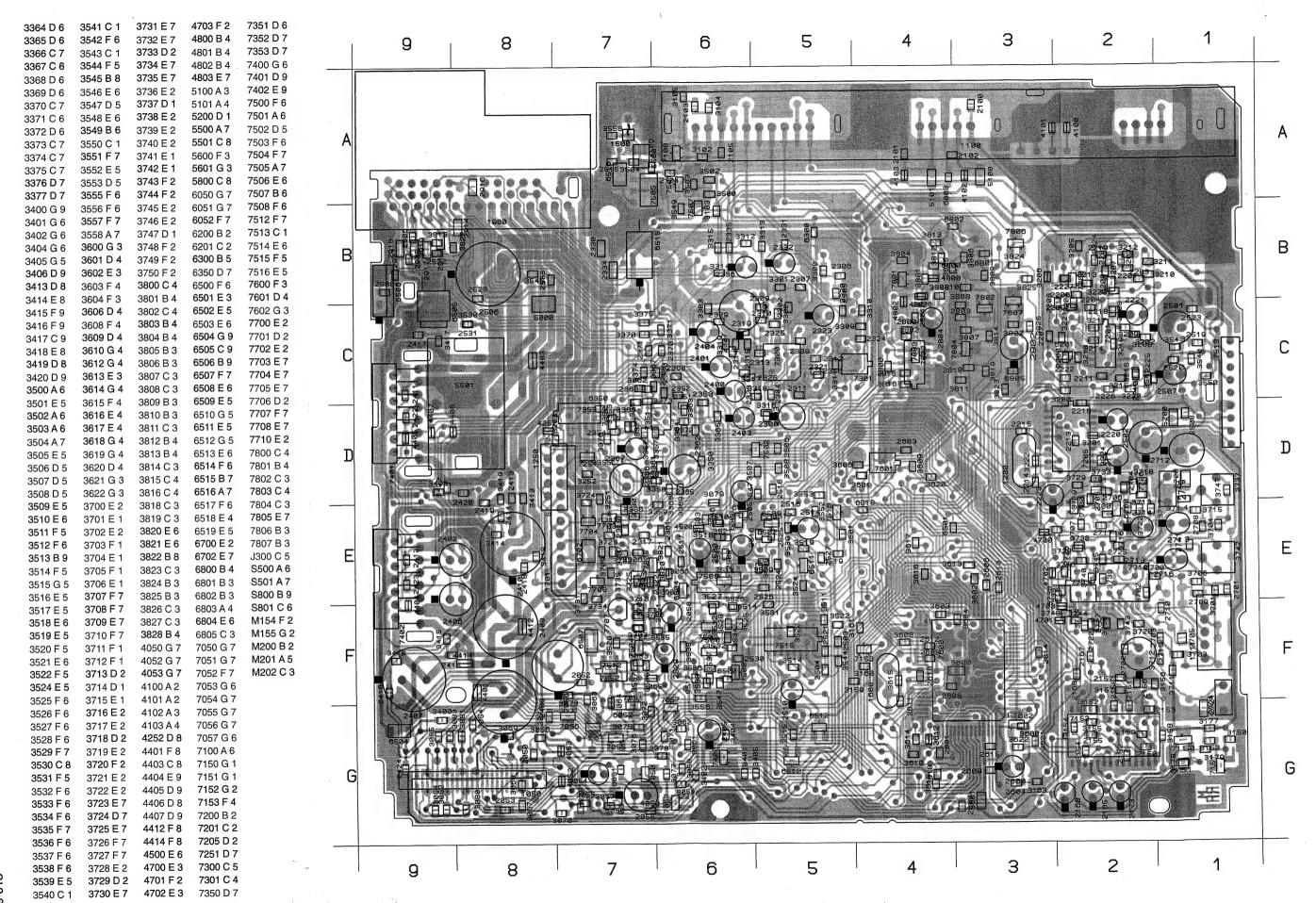
Front-PW B

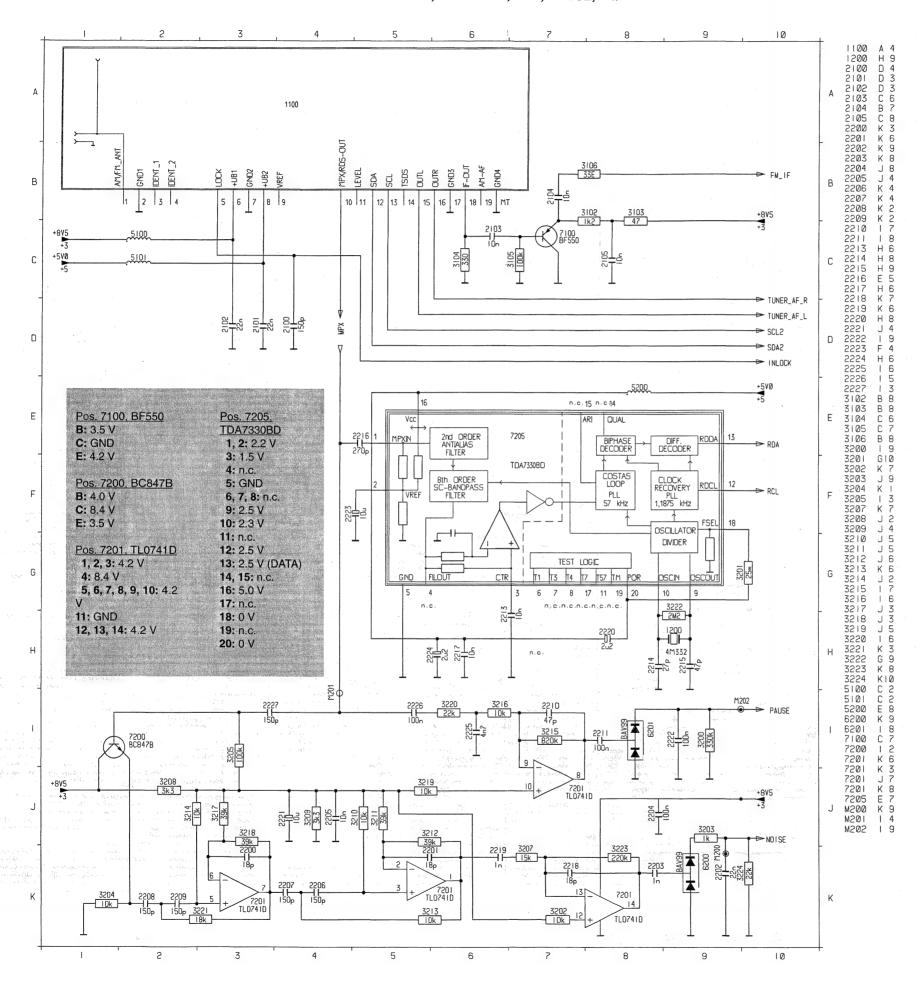


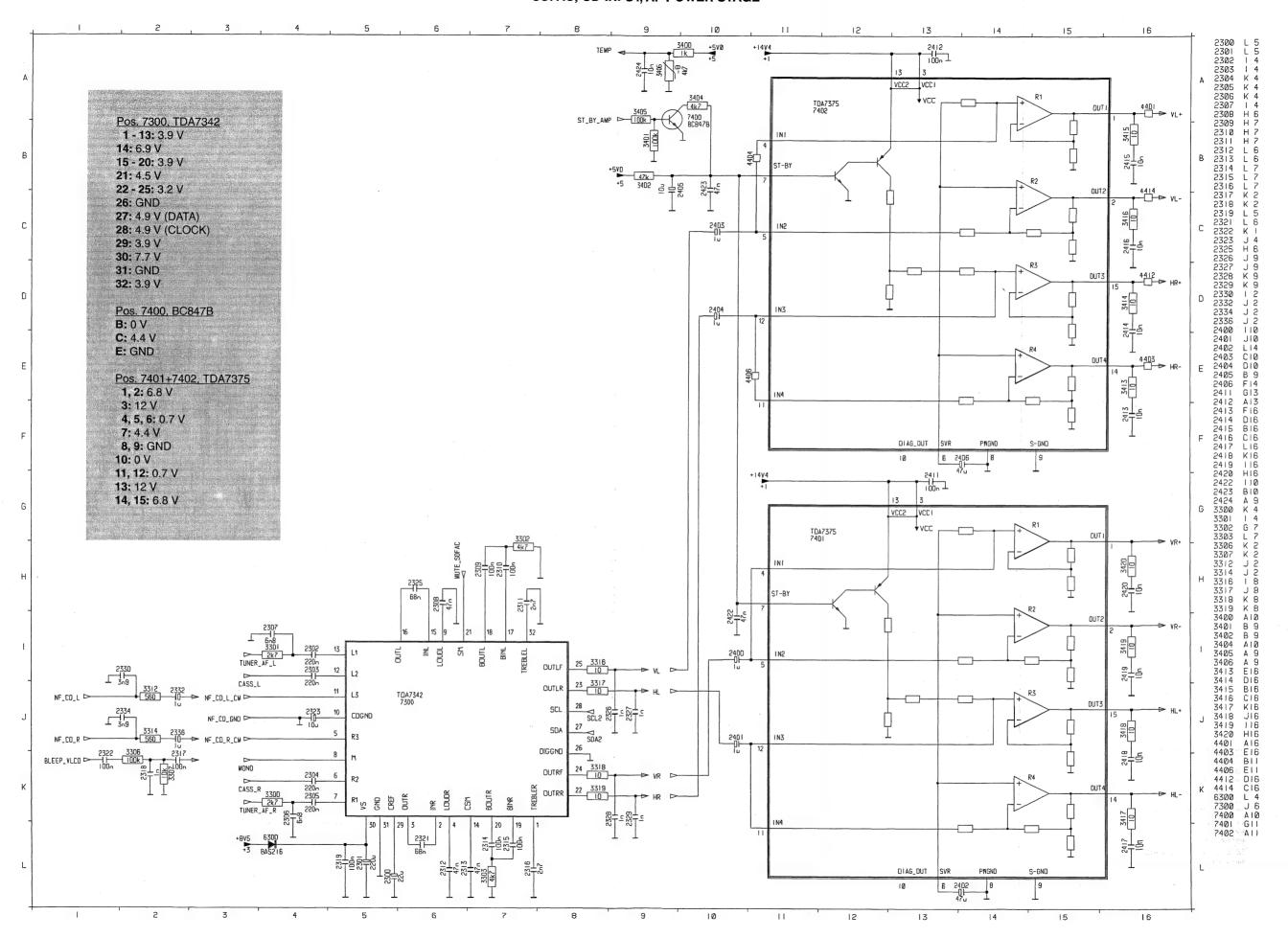
1000 B 11	1113 B 11	2200 B 3	2216 B 11	3110 A 9	3214 A 2	3230 A 10	6212 B 6	6228 A 4
1001 A 10	1114 A 9	2201 B 12	2217 B 10	3111 A 8	3215 B 4	3231 A 10	6213 B 5	6229 B 4
1003 B 7	1115 A 2	2202 B 12	2218 B 11	3200 B 1	3216 A 2	6100 A 10	6214 B 5	6230 A 5
1100 B 3	1116 A 1	2203 B 12	2219 B 10	3201 B 1	3217 A 2	6101 A 10	6215 B 4	6231 B 2
1101 B 2	1117 B 3	2204 B 12	2220 B 11	3202 B 2	3218 A 10	6200 B 10	6216 B 11	6232 B 2
1102 B 2	1118 B 4	2205 B 12	2221 B 10	3203 B 2	3219 A 9	6201 B 9	6217 B 11	6233 B 2
1103 B 1	1119 A 3	2206 B 12	3100 A 10	3204 B 2	3220 A 4	6202 B 9	6218 B 12	6234 A 9
1104 B 7	1120 A 4	2207 B 11	3101 A 9	3205 B 2	3221 A 4	6203 B 9	6219 B 9	7100 B 9
1105 B 6	2100 A 9	2208 B 12	3102 A 9	3206 B 2	3222 A 5	6204 B 8	6220 A 1	7101 B 7
1106 B 5	2101 A 9	2209 B 11	3103 A 9	3207 B 2	3223 A 11	6205 B 8	6221 A 2	7200 A 2
1107 B 4	2102 A 10	2210 B 11	3104 A 9	3208 B 2	3224 A 11	6206 B 8	6222 B 7	
1108 B 11	2103 A 7	2211 B 11	3105 A 10	3209 B 2	3225 A 1	6207 B 7	6223 A 10	
1109 B 10	2104 A 9	2212 B 10	3106 A 10	3210 A 2	3226 A 2	6208 B 7	6224 B 11	
1110 B 8	2105 B 10	2213 B 11	3107 B 10	3211 A 2	3227 A 2	6209 B 7	6225 A 9	
1111 B 8	2106 A 9	2214 B 11	3108 A 8	3212 A 10	3228 A 2	6210 B 6	6226 B 6	
1112 B 12	2107 A 9	2215 B 11	3109 A 8	3213 A 10	3229 A 9	6211 B 6	6227 B 1	

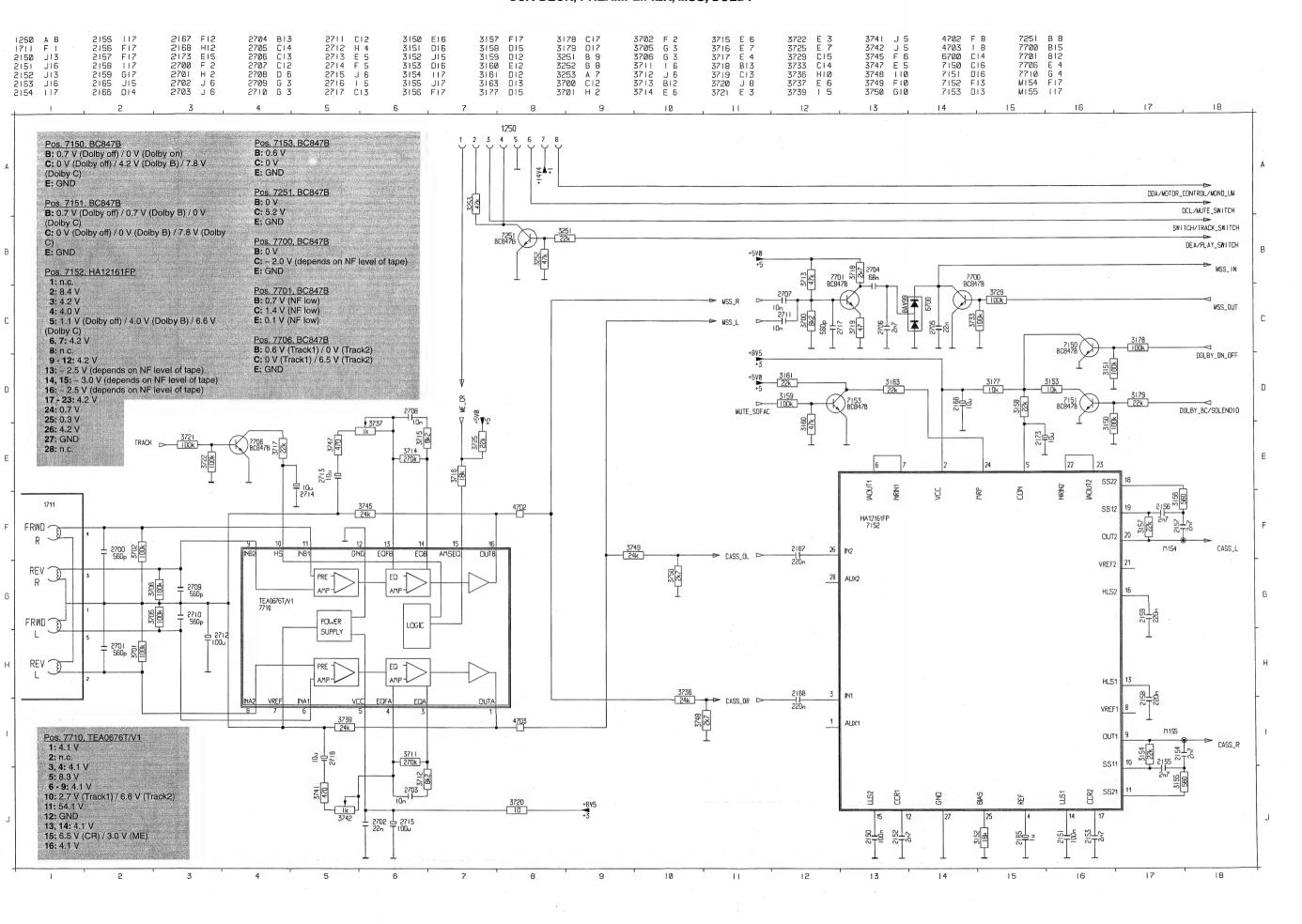




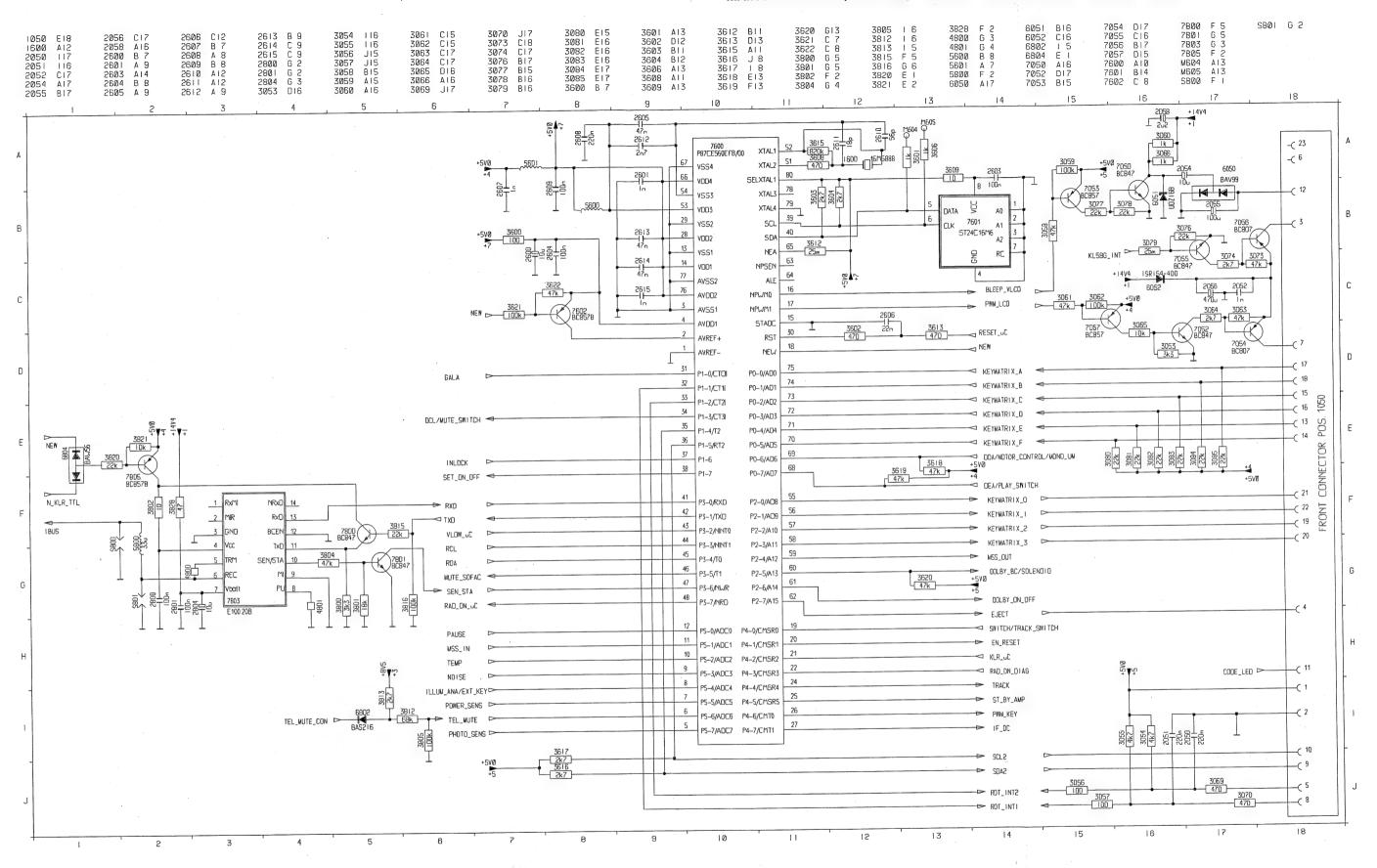




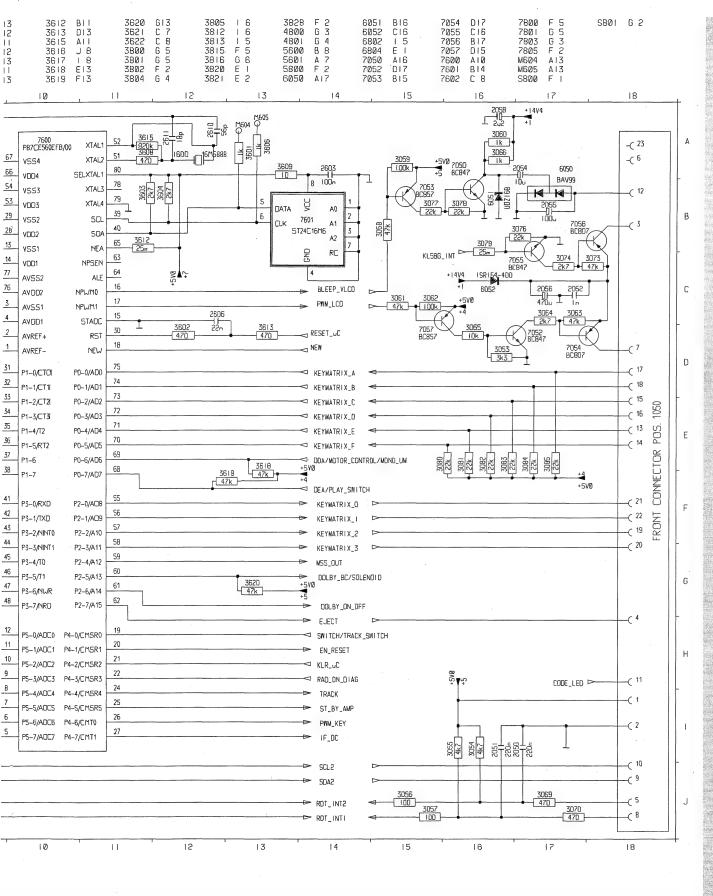




MAIN PROCESSOR, EEPROM, I-BUS, TEL. MUTE, EXT.KEY, FRONT CONNECTOR

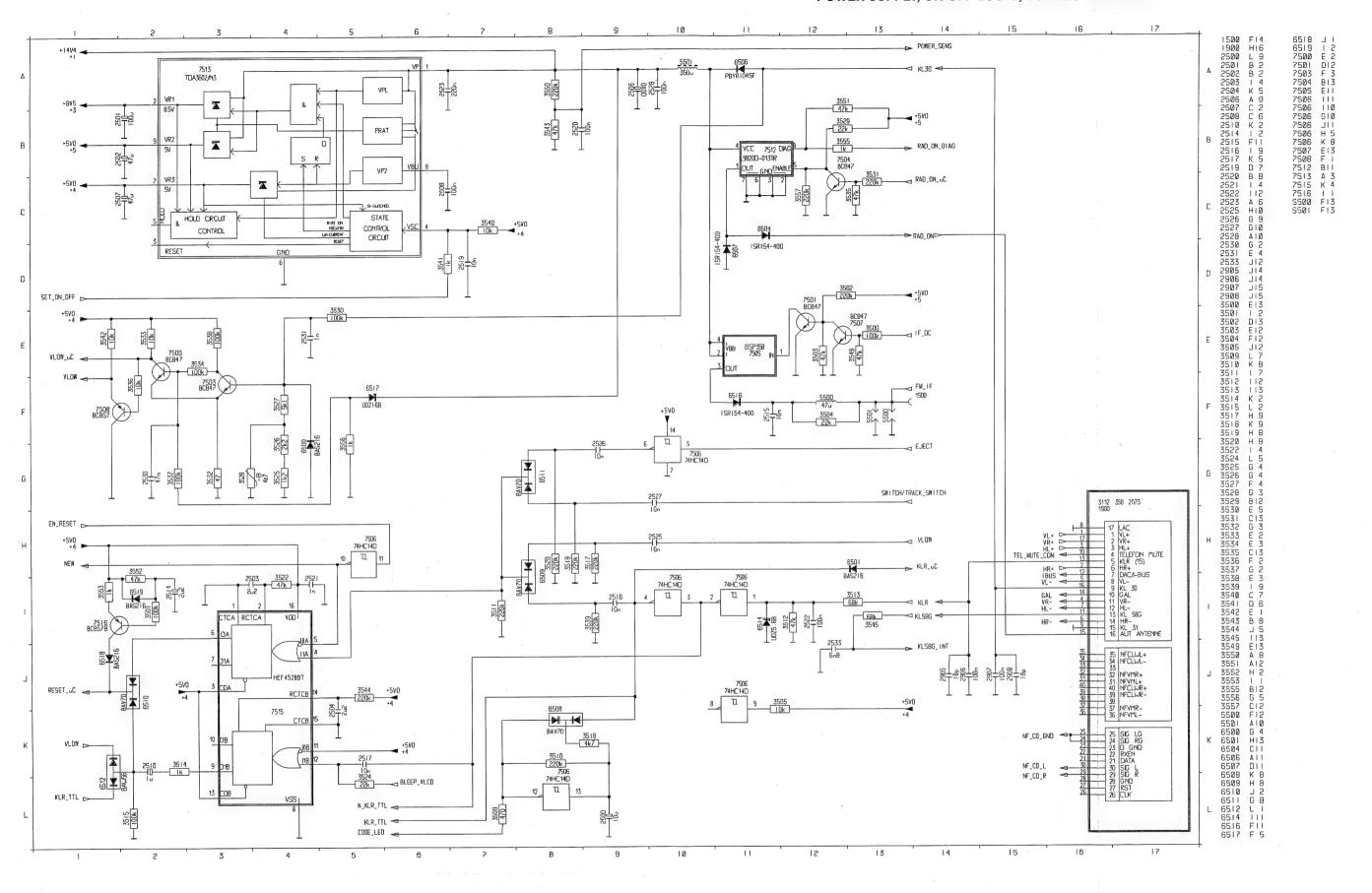


MAIN PROCESSOR, EEPROM, I-BUS, TEL. MUTE, EXT.KEY, FRONT CONNECTOR

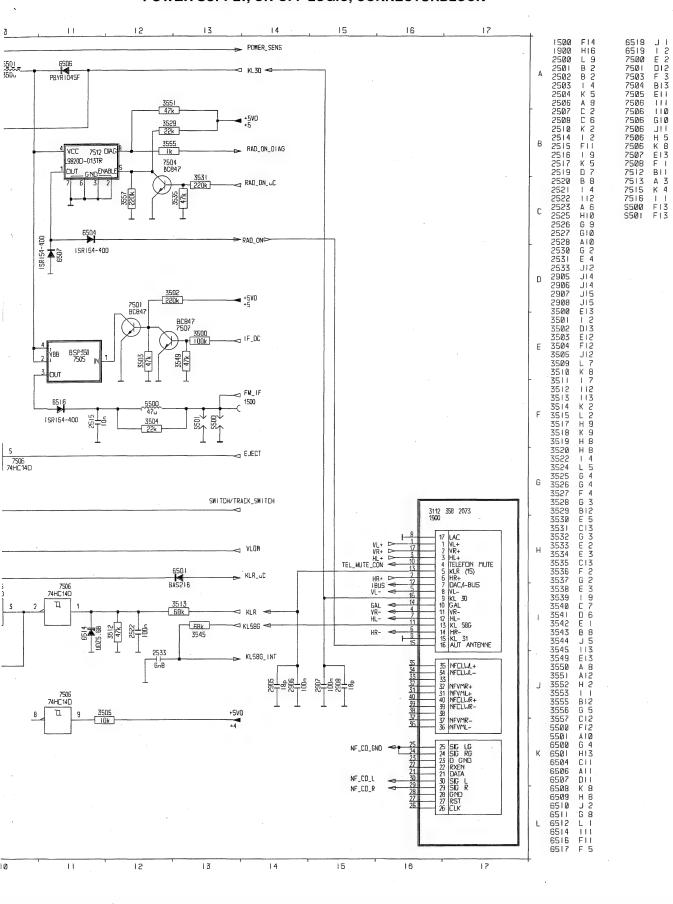


Pos. 7050, BC847	38: 0 V / 5.0 V (IGN. OFF)
B: 0.4 V	39: 5,0 V (SCL)
C: 4.8 V	40: 5,0 V (SDA)
E: GND	41: 0 V
Pos. 7052. BC847	42: 4.5 V
B: 0.2 V	43: 5.0 V / 0 V (low or high voltage OFF) 44: 2.5 V
C: 9.5 V	45: 2.5 V (DATA)
E: GND	46: 4.5 V
	47: 0 V
Pos. 7053, BC857	48: 0 V / 4.8 V (Set OFF)
B: 4.6 V	49, 50 : n.c.
C: 2.5 V	51: 2.6 V sensitive measuring point!
E: 4.9 V	52: 2.2 V
	53: 4.9 V
Pos. 7054, BC807	54: 0 V
B: 12 V	55–57: 4.9 V
C: 5.8 V	58: ~ 0.2 V
E: 12 V	59: 0 V
	60: 3.8 V (Dolby OFF or B) / 0 V (Dolby C)
Pos. 7055, BC847	61: 4.6 V (Dolby OFF) / 0 V (Dolby B or C)
B: 0.6 V	62: 4.9 V / 0 V (Eject button pressed)
C: 0 V	63, 64: n.c.
E: GND	65, 66: 4.9 V
Pos. 7056, BC807	67: GND
B: 0.7 V	68: 0 V 69–75: 4.9 V
C: 0.7 V	76: 5.0 V
E: 12 V	77: GND
	78: n.c.
Pos. 7057, BC857	79: GND
B: 4.7 V	80: 5.0 V
C: 1.2 V	and the second of property of the second second Second second
E: 4.9 V	Pos. 7601, ST24C16
	1–4: GND
Pos. 7600, P87CE560	5: 5,0 V (SDA)
1: GND	6: 5,0 V (SCL)
2: 4.9 V	7: GND
3: GND	8; 5,0 V
4: 5.0 V	
5: 1.0 V	Pos. 7602, BC857B
6: 5.0 V / 0.4 V (PHONE)	B: 4.3 V
7: 1.5 V (low voltage OFF) / 3.0 V (high voltage OFF)	C: 4.9 V
8: varying around 0.5 V	E: 4.9 V
9: 03 V (NOISE dependent) 10: 3.7 V (Temperature dependent)	Pos. 7800, BC847
11: ~ 1.0 V (Radio) / ~ 2.5 V (Tape): NF level dep.	B: 4.4 V
12: ~ 5.0 V / LOW (NF low)	C: 4.9 V
13: GND	E: 3.9 V
14: 5.0 V	
15: GND	Pos. 7801, BC847
16: 2.5 V	B: 0 V
17; 3.8 V	C: 5.0 V
18: 0 V / 5.0 V (IGN. OFF)	E: 0 V
19: 5.0 V (Radio) / 0 V (Tape)	r sammer transfer of the same
20: 5.0 V sensitive measuring point!	Pos. 7803, E100 20B
21: 4.9 V	1, 2: n.c.
22: 4.9 V	3; GND
23 : n.c.	4: 5.0 V
24: 4.6 V (Track1) / 0 V (Track2)	5, 6: (I-BUS)
25: 0 V / 4.6 V (Set OFF)	7: 12 V
26: 4.9 V	8, 9: GND
27: 0 V	10: 4.7 V
28: 5.0 V	11: 3.9 V
29: GND	12: GND
30: 0 V	13: 0 V
31: 4.9 V	14: n.c.
32: 4.9 V / 0.5 V alternates when turning volume knob 33: 4.9 V / 0.5 V alternates when turning volume knob	Pos. 7805, BC857B
33: 4.9 V / 0.5 V alternates when turning volume knob 34: 4.9 V / 3.7 V (Tape wind)	B: 4.4 V / 4.9 V (IGN. OFF)
35: 5,0 V (SDA)	C: 4.9 V / 0. V (IGN. OFF)
36: 5,0 V (SCL)	E: 5.0 V

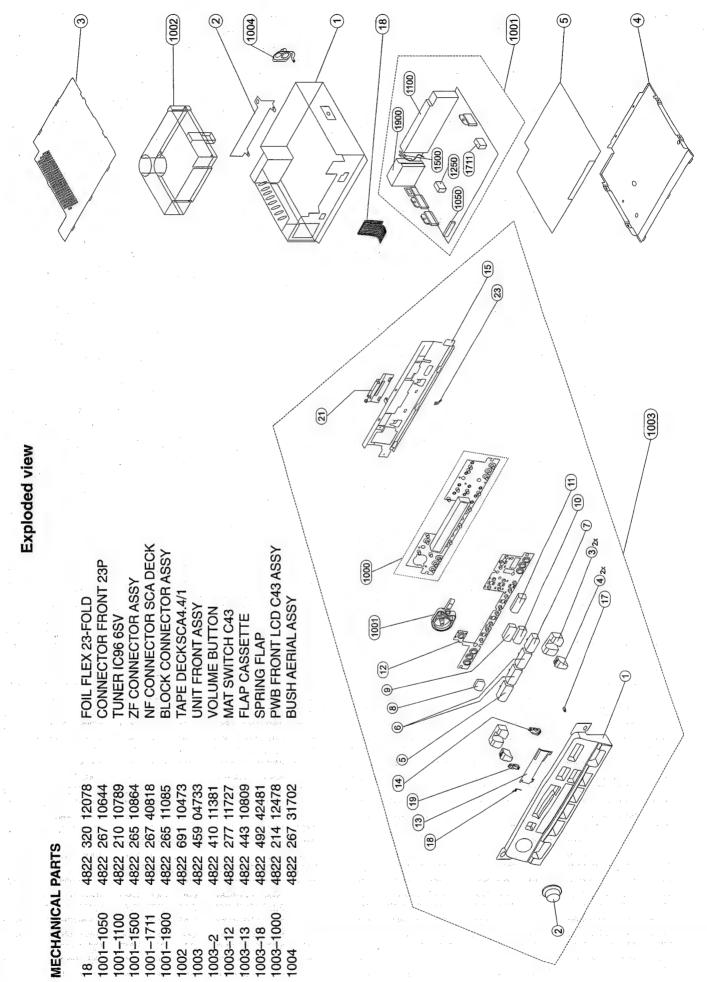
POWER SUPPLY, ON-OFF LOGIC, CONNECTORBLOCK



POWER SUPPLY, ON-OFF LOGIC, CONNECTORBLOCK



Pos. 7500, BC847 Pos. 7515, HEF4528BT B: 0 V 1: GND C: 5.0 V 2, 3: 5.0 V E: 0 V 4, 5, 6: 0 V 7: n.c. Pos. 7501, BC847 8: GND **B:** 0.6 V / 0 V (IGN. OFF) **C:** 0 V / 12 V (IGN. OFF) 9:0V 10: n.c. E: GND 11: 5.0 V 12: 2.5 V Pos. 7503, BC847 13: 5.0 V **B:** 0.6 V 14: 2.0 V C: 0 V 15: GND E: 0 V 16: 5.0 V Pos. 7504, BC847 Pos. 7516, BC857 B: 0 V / 0.6 V (Set OFF) **B**: 4.9 V C: 4.5 V / 0 V (Set OFF) C: 0 V E: GND E: 4.9 V Pos. 7505, BSP350 1: 0 V / 12 V (IGN, OFF) 2: 12 V 3: 12 V / 8.4 V (IGN. OFF) 4: 12 V Pos. 7506, 74HC14D 1: 5.0 V 2, 3: 0 V / 5.0 V (IGN, OFF) 4: 5.0 V / 0 V (IGN, OFF) 5: 5.0 V / 0 V (Eject button pressed) 6: 0 V / 5.0 V (Eject button pressed) 7: GND 8: n.c. 9: 5.0 V 10:0 V 11: 5.0 V / 0 V (IGN. OFF) 12: 0 V / HIGH (Code Led ON) 13: 4.5 V / varies when Code Led activ 14: 5.0 V Pos. 7507, BC847 B: 0 V C: 0.6 V / 0 V (IGN. OFF) E: GND Pos. 7508, BC857 B: 5.0 V / 0.1 V (low or high voltage OFF) E: 5.0 V / 0.7 V (low or high voltage OFF) Pos. 7512, L9820D 1: 12 V 2, 3: GND 4: 12 V 5: 4.5 V / 0 V (Set OFF) 6, 7: GND 8: 5.0 V Pos. 7513, TDA3602 1: 12 V 2: 8.4 V 4: 0.5 V / 5.0 V (IGN, OFF) 5: n.c. 6: GND 7: 5.0 V 8: 12 V 9: 4.9 V



MISC	ELLANEOUS				2223	482212441017	CAP., ELEC. ALU.	10UF	16V
	482290110025	EEPROM DATA DI	SKETTE		2224	482212423504	CAP., ELEC. ALU.	2.2UF20%	50V
1002	482207121003	FUSE 257010.(10A	A)		2225	532212610223	CAP., CER. SMD	4,7NF10%X7R	63V
1200	482224272195	QUARZ 4,332 MH	Z AT51		2226	482212614165	CAP., CER. SMD	100NF 10%	25V
1600	482224210802	QUARZ16.588 800			2227	532212233538	CAP., CER. SMD	150PF 2%NP0	63V
1000	10222 12 10002				2300	482212423279	CAP., ELEC. ALU.	22UF20%	16V
CADA	CITORS				2301	482212423582	CAP., ELEC. ALU.		10V
		CAP., CER. SMD	100NF10%X7R	63V	2302	482212613849	CAP., CER. SMD	220NF 10%	16V
2001	482212233496						CAP., CER. SMD	220NF 10%	16V
2002	482212233496	CAP., CER. SMD	100NF10%X7R	63V	2303	482212613849			16V
2003	482212233496	CAP., CER. SMD	100NF10%X7R	63V	2304	482212613849	CAP., CER. SMD	220NF 10%	
2004	482212232142	CAP., CER. SMD	270PF 2%NP0	63V	2305	482212613849	CAP., CER. SMD	220NF 10%	16V
2005	482212232142	CAP., CER. SMD	270PF 2%NP0	63V	2306	532212231866	CAP., CER. SMD	6,8NF10%X7R	63V
2006	482212233496	CAP., CER. SMD	100NF10%X7R	63V	2307	532212231866	CAP., CER. SMD	6,8NF10%X7R	63V
2007	482212231839	CAP., CER. SMD	82PF 2%NP0	63V	2308	482212411884	CAP., ELEC. ALU.	47NF 10%X7R	16V
2008	482212233496	CAP., CER. SMD	100NF10%X7R	63V	2309	482212614165	CAP., CER. SMD	100NF 10%	25V
2009	482212232142	CAP., CER. SMD	270PF 2%NP0	63V	2310	482212614165	CAP., CER. SMD	100NF 10%	25V
2010	482212232142	CAP., CER. SMD	270PF 2%NP0	63V	2311	482212232627	CAP., CER. WIRE	2.7NF10%X7R	50V
2011	482212233496	CAP., CER. SMD	100NF10%X7R	63V	2312	482212411884	CAP., ELEC. ALU.	47NF 10%X7R	16V
2012	482212233496	CAP., CER. SMD	100NF10%X7R	63V	2313	482212411884	CAP., ELEC. ALU.	47NF 10%X7R	16V
	482212232142	CAP., CER. SMD	270PF 2%NP0	63V	2314	482212614165	CAP., CER. SMD	100NF 10%	25V
2013		CAP., CER. SMD			2315	482212614165	CAP., CER. SMD	100NF 10%	25V
2014	482212233496		100NF10%X7R	63V					50V
2015	482212232566	CAP., CER. SMD	3,9NF10%X7R	63V	2316	482212232627	CAP., CER. WIRE	2.7NF10%X7R	
2016	482212232142	CAP., CER. SMD	270PF 2%NP0	63V	2317	482212614165	CAP., CER. SMD	100NF 10%	25V
2017	482212232142	CAP., CER. SMD	270PF 2%NP0	63V	2318	532212234123	CAP., CER. SMD	1NF10%X7R	50V
2050	482212613849	CAP., CER. SMD	220NF 10%	16V	2319	482212614165	CAP., CER. SMD	100NF 10%	25V
2051	482212613849	CAP., CER. SMD	220NF 10%	16V	2321	482212613851	CAP., CER. SMD	68NF 10%	16V
2052	532212234123	CAP., CER. SMD	1NF10%X7R	50V	2322	482212614165	CAP., CER. SMD	100NF 10%	25V
2054	482212441017	CAP., ELEC. ALU.	10UF	16V	2323	482212441017	CAP., ELEC. ALU.	10UF	16V
2055	482212480453	CAP., ELEC. ALU.	100UF20%	10V	2325	482212613851	CAP., CER. SMD	68NF 10%	16V
2056	482212480815	CAP., ELEC. ALU.	470UF20%	16V	2326	532212234123	CAP., CER. SMD	1NF10%X7R	50V
2058	482212423504	CAP., ELEC. ALU.		50V	2327	532212234123	CAP., CER. SMD	1NF10%X7R	50V
2100	532212233538	CAP., CER. SMD	150PF 2%NP0	63V	2328	532212234123	CAP., CER. SMD	1NF10%X7R	50V
		· ·		63V	2329	532212234123	CAP., CER. SMD	1NF10%X7R	50V
2101	532212232654	CAP., CER. SMD	22NF10%X7R						63V
2102	532212232654	CAP., CER. SMD	22NF10%X7R	63V	2330	482212232566	CAP., CER. SMD	3,9NF10%X7R	
2103	532212234098	CAP., CER. SMD	10NF10%X7R	63V	2332	482212423282	CAP., ELEC. ALU.	1UF20%	50V
2104	532212234098	CAP., CER. SMD	10NF10%X7R	63V	2334	482212232566	CAP., CER. SMD	3,9NF10%X7R	63V
2105	532212234098	CAP., CER. SMD	10NF10%X7R	63V	2336	482212423282	CAP., ELEC. ALU.	· ·	50V
2150	482212614165	CAP., CER. SMD	100NF 10%	25V	2400	482212423282	CAP., ELEC. ALU.		50V
2151	482212614165	CAP., CER. SMD	100NF 10%	25V	2401	482212423282	CAP., ELEC. ALU.	1UF20%	50V
2152	482212232627	CAP., CER. WIRE	2.7NF10%X7R	50V	2402	482212480724	CAP., ELEC. ALU.	47UF20%	10V
2153	482212232627	CAP., CER. WIRE	2.7NF10%X7R	50V	2403	482212423282	CAP., ELEC. ALU.	1UF20%	50V
2154	482212232627	CAP., CER. WIRE		50V	2404	482212423282	CAP., ELEC. ALU.	1UF20%	50V
2155	482212232627	CAP., CER. WIRE		50V	2405	482212441017	CAP., ELEC. ALU.		16V
	482212232627	CAP., CER. WIRE		50V	2406	482212480724	CAP., ELEC. ALU.		10V
		CAP., CER. WIRE		50V	2411	482212614165	CAP., CER. SMD	100NF 10%	25V
2157				16V			CAP., CER. SMD	100NF 10%	25V
2158	482212613849	CAP., CER. SMD	220NF 10%		2412				63V
2159	482212613849	CAP., CER. SMD	220NF 10%	16V	2413	532212234098	CAP., CER. SMD	10NF10%X7R	
2165	482212423282	CAP., ELEC. ALU.		50V		532212234098	CAP., CER. SMD	10NF10%X7R	63V
2166	482212441017	CAP., ELEC. ALU.		16V	2415		CAP., CER. SMD	10NF10%X7R	63V
2167	482212613849	CAP., CER. SMD	220NF 10%	16V	2416		CAP., CER. SMD.	10NF10%X7R	63V
2168	482212613849	CAP., CER. SMD	220NF 10%	16V	2417	532212234098	CAP., CER. SMD	10NF10%X7R	63V
2173	482212441017	CAP., ELEC. ALU.	10UF	16V	2418	532212234098	CAP., CER. SMD	10NF10%X7R	63V
2200	482212613689	CAP., CER. SMD	18PF 1% NP0	63V	2419	532212234098	CAP., CER. SMD	10NF10%X7R	63V
2201	482212613689	CAP., CER. SMD	18PF 1% NP0	63V	2420	532212234098	CAP., CER. SMD	10NF10%X7R	63V
2202	532212232654	CAP., CER. SMD	22NF10%X7R	63V	2422	482212411884	CAP., ELEC. ALU.	47NF 10%X7R	16V
2203		CAP., CER. SMD	1NF10%X7R	50V	2423	482212411884	CAP., ELEC. ALU.		16V
2204	482212614165	CAP., CER. SMD	100NF 10%	25V	2424	532212234098	CAP., CER. SMD	10NF10%X7R	63V
2205	532212234098	CAP., CER. SMD	10NF10%X7R	63V	2500	482212441017	CAP., ELEC. ALU.		16V
		CAP., CER. SMD		63V	2501	482212480453	CAP., ELEC. ALU.		10V
2206	532212233538		150PF 2%NP0						16V
2207		CAP., CER. SMD	150PF 2%NP0	63V	2502	482212422646	CAP., ELEC. ALU.		
2208	532212233538	CAP., CER. SMD	150PF 2%NP0	63V	2503	at an in a facility of the second	CAP., CER. SMD		10V
2209	532212233538	CAP., CER. SMD	150PF 2%NP0	63V	2504	532212614103	CAP., CER. SMD	2,2UF +80-20%	10V
2210	532212232452	CAP., CER. SMD	47PF 5%NP0	63V	2506	the second second	CAP., ELEC. ALU.		16V
2211	482212614165	CAP., CER. SMD	100NF 10%	25V	2507	482212441017	CAP., ELEC. ALU.	and the second second	16V
2213	532212234098	CAP., CER. SMD	10NF10%X7R	63V	2508	482212614165	CAP., CER. SMD	100NF 10%	25V
2214	532212231946	CAP., CER. SMD	27PF 5%NP0	63V	2510	482212423282	CAP., ELEC. ALU.	1UF20%	50V
2215		CAP., CER. SMD	47PF 5%NP0	63V		482212423504	CAP., ELEC. ALU.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	50V
	482212233216	CAP., CER. SMD	270PF 5%NP0	50V	2515		CAP., CER. SMD	10NF10%X7R	63V
2217		CAP., CER. SMD	10NF10%X7R	63V	2516		CAP., CER. SMD	10NF10%X7R	63V
2218		CAP., CER. SMD	18PF 1% NP0	63V	2517		CAP., CER. SMD	10NF10%X7R	63V
2219		CAP., CER. SMD	1NF10%X7R	50V	2519		CAP., CER. SMD	10NF10%X7R	63V
							CAP., CER. SMD	100NF 10%	25V
2220		CAP., ELEC. ALU.		50V	2520	482212614165			50V
2221	482212441017	CAP., ELEC. ALU.		16V	2521	532212234123	CAP, CER, SMD	1NF10%X7R	25V 2
2222	482212614165	CAP., CER. SMD	100NF 10%	25V	2022	482212614165	CAP., CER. SMD	100NF 10%	200

050	400010613040	CAR CER CMD	220NF 10%	16V	3082	482205120223	RES., CHIP	22K00 5%	0,1W
2523		CAP., CER. SMD							
252	5 532212234098	CAP., CER. SMD	10NF10%X7R	63V	3083	482205120223	RES., CHIP	22K00 5%	0,1W
2520	5 532212234098	CAP., CER. SMD	10NF10%X7R	63V	3084	482205120223	RES., CHIP	22K00 5%	0,1W
					3085		RES., CHIP	22K00 5%	0,1W
252	7 532212234098	CAP., CER. SMD	10NF10%X7R	63V		482205120223			
2528	3 482212614165	CAP., CER. SMD	100NF 10%	25V	3102	482205120122	RES., CHIP	1K20 5%	0,1W
2530	-	CAP., ELEC. ALU.	47NF 10%X7R	16V	3103	482205120479	RES., CHIP	47R00 5%	0,1W
		· ·							
253	1 532212234123	CAP., CER. SMD	1NF10%X7R	50V	3104	482205120331	RES., CHIP	330R005%	0,1W
2533		CAP., CER. SMD	6,8NF10%X7R	63V	3105	482205120104	RES., CHIP	100K005%	0,1W
			•						
2600	482212441017	CAP., ELEC. ALU.	10UF	16V	3106	482205120339	RES., CHIP	33R00 5%	0,1W
260°	532212234123	CAP., CER. SMD	1NF10%X7R	50V	3150	482205120104	RES., CHIP	100K005%	0,1W
							•		0,1W
2603	3 482212614165	CAP., CER. SMD	100NF 10%	25V	3151	482205120104	RES., CHIP	100K005%	
2604	482212614165	CAP., CER. SMD	100NF 10%	25V	3152	482205110183	RES., CHIP	18K00 2%	0,25W
		'						10K 1%	0,1W
2605	482212411884	CAP., ELEC. ALU.	47NF 10%X7R	16V	3153	4822117 10833	RES., CHIP		
2606	5 532212232654	CAP., CER. SMD	22NF10%X7R	63V	3154	482205120223	RES., CHIP	22K00 5%	0,1W
		· ·		50V	3155	482205120561	RES., CHIP	560R005%	0,1W
2607	532212234123	CAP., CER. SMD	1NF10%X7R						
2608	3 482212613849	CAP., CER. SMD	220NF 10%	16V	3156	482205120561	RES., CHIP	560R005%	0,1W
2609	482212614165	CAP., CER. SMD	100NF 10%	25V	3157	482205120223	RES., CHIP	22K00 5%	0,1W
2610	482212613693	CAP., CER. SMD	56PF 1% NP0	63V	3158	482205120223	RES., CHIP	22K00 5%	0,1W
2611	482212613689	CAP., CER. SMD	18PF 1% NP0	63V	3159	482205120104	RES., CHIP	100K005%	0,1W
							•	47K00 1%	0,1W
2612	482212232627	CAP., CER. WIRE	2./NF10%X/R	50V	3160	482205120473	RES., CHIP		
2613	482212411884	CAP., ELEC. ALU.	47NF 10%X7R	16V	3161	482205120223	RES., CHIP	22K00 5%	0,1W
				16V	3163	482205120223	RES., CHIP	22K00 5%	0,1W
2614	482212411884	CAP., ELEC. ALU.	47NF 10%X7R						
2615	5 532212234123	CAP., CER. SMD	1NF10%X7R	50V	3177	482211710833	RES., CHIP	10K 1%	0,1W
		CAP., CER. SMD	560PF 5%NP0	63V	3178	482205120104	RES., CHIP	100K005%	0,1W
2700							· ·		
270	l 532211680853	CAP., CER. SMD	560PF 5%NP0	63V	3179	482205120223	RES., CHIP	22K00 5%	0,1W
2702		CAP., CER. SMD	22NF10%X7R	63V	3200	482205120334	RES., CHIP	330K005%	0,1W
		•					•		
2703	3 532212234098	CAP., CER. SMD	10NF10%X7R	63V	3201	482205120008	RES., CHIP	OROO JUMP.	,
2704	482212613851	CAP., CER. SMD	68NF 10%	16V	3202	482211710833	RES., CHIP	10K 1%	0,1W
									0,1W
270	5 532212232654	CAP., CER. SMD	22NF10%X7R	63V	3203	482205120102	RES., CHIP		
2706	482212232627	CAP., CER. WIRE	2.7NF10%X7R	50V	3204	4822117 10833	RES., CHIP	10K 1%	0,1W
		· ·					RES., CHIP	100K005%	0,1W
2707	532212234098	CAP., CER. SMD	10NF10%X7R	63V	3205	482205120104			
2708	3 532212234098	CAP., CER. SMD	10NF10%X7R	63V	3207	482205120153	RES., CHIP	15K00 5%	0,1W
		CAP., CER. SMD	560PF 5%NP0	63V	3208	482205120332	RES., CHIP	3K30 5%	0,1W
2709		•							
2710	532211680853	CAP., CER. SMD	560PF 5%NP0	63V	3209	482205120332	RES., CHIP	3K30 5%	0,1W
2711	532212234098	CAP., CER. SMD	10NF10%X7R	63V	3210	4822117 10833	RES., CHIP	10K 1%	0,1W
							•		0,1W
2712	482212480453	CAP., ELEC. ALU.	100UF20%	10V	3211	482205120393	RES., CHIP		-
2713	3 482212441017	CAP., ELEC. ALU.	10UF	16V	3212	482205120393	RES., CHIP	39K00 5%	0,1W
		· ·						10K 1%	0,1W
2714	482212441017	CAP., ELEC. ALU.	10UF	16V	3213	482211710833	RES., CHIP		,
271	482212480453	CAP., ELEC. ALU.	100UF20%	10V	3214	482211710833	RES., CHIP	10K 1%	0,1W
	,			16V	3215	482205120824	RES., CHIP	820K005%	0,1W
2716	482212441017	CAP., ELEC. ALU.	10UF						
2717	7 532211680853	CAP., CER. SMD	560PF 5%NP0	63V	3216	4822117 10833	RES., CHIP	10K 1%	0,1W
2800		CAP., CER. SMD	100NF 10%	25V	3217	482205120393	RES., CHIP	39K00 5%	0,1W
280	482212614165	CAP., CER. SMD	100NF 10%	25V	3218	482205120393	RES., CHIP	39K00 5%	0,1W
2804	4 482212441017	CAP., ELEC. ALU.	10UF	16V	3219	482211710833	RES., CHIP	10K 1%	0,1W
								22K00 5%	0,1W
290	482212613689	CAP., CER. SMD	18PF 1% NP0	63V	3220	482205120223	RES., CHIP		
2900	482212614165	CAP., CER. SMD	100NF 10%	25V	3221	4822117 10965	RES., CHIP	18K 1%	0,1W
		CAP., CER. SMD	100NF 10%	25V	3222	482205120225	RES., CHIP	2M20 5%	0,1W
290		•							
2908	3 482212613689	CAP., CER. SMD	18PF 1% NP0	63V	3223	482205120224	RES., CHIP	220K005%	0,1W
					3224	482205120223	RES., CHIP	22K00 5%	0,1W
RES	SISTORS AND JUMI	PERS			3251	482205120223	RES., CHIP	22K00 5%	0,1W
305	3 482205120332	RES., CHIP	3K30 5%	0,1W	3252	482205120473	RES., CHIP	47K00 1%	0,1W
	•			0,1W	3253	482205120473	RES., CHIP	47K00 1%	0,1W
305	4 482205120472	RES., CHIP	4K70 5%	0,100					
305	5 482205120472	RES., CHIP	4K70 5%	0,1W	3300	482205120272	RES., CHIP	2K70 5%	0,1W
305		RES., CHIP	100R005%	0,1W	3301	482205120272	RES., CHIP	2K70 5%	0,1W
									0,1W
305	7 482205120101	RES., CHIP	100R005%	0,1W	3302	482205120472	RES., CHIP	4K70 5%	
305	8 482205120473	RES., CHIP	47K00 1%	0.1W	3303	482205120472	RES., CHIP	4K70 5%	0,1W
		•					RES., CHIP	100K005%	0,1W
305	9 482205120104	RES., CHIP	100K005%	0,1W	3306	482205120104			
306	482205120102	RES., CHIP	1K00 5%	0,1W	3307	482211710833	RES., CHIP	10K 1%	0,1W
		RES., CHIP	47K00 1%	0.1W	3319	482205120561	RES., CHIP	560R005%	0,1W
306	1 482205120473								
306	2 482205120104	RES., CHIP	100K005%	0,1W	3314	482205120561	RES., CHIP	560R005%	0,1W
		RES., CHIP	47K00 1%	0.1W	3316	482205120109	RES., CHIP	10R00 5%	0,1W
	3 482205120473								
306	4 482205120272	RES., CHIP	2K70 5%	0,1W	3317	482205120109	RES., CHIP	10R00 5%	0,1W
	5 482211710833	RES., CHIP	10K 1%	0,1W	3318	482205120109	RES., CHIP	10R00 5%	0,1W
							· ·		0,1W
306	6 482205120102	RES., CHIP	1K00 5%	0,1W	3319	482205120109	RES., CHIP	10R00 5%	
306	9 482205120471	RES., CHIP	470R005%	0,1W	3400	482205120102	RES., CHIP	1K00 5%	0,1W
								100K005%	
307	0 482205120471	RES., CHIP	470R005%	0,1W	3401	482205120104	RES., CHIP		
307	3 482205120473	RES., CHIP	47K00 1%	0.1W	3402	482205120473	RES., CHIP	47K00 1%	0,1W
							RES., CHIP	4K70 5%	0,1W
307	4 482205120272	RES., CHIP	2K70 5%	0,1W	3404	482205120472			
307	6 482205120223	RES., CHIP	22K00 5%	0,1W	3405	482205120104	RES., CHIP	100K005%	0,1W
	7 482205120223	RES., CHIP	22K00 5%	0,1W	3406	482211712817	RES., NON-LIN.	4K7 5%	0,21W
				-					
307	8 482205120223	RES., CHIP	22K00 5%	-0,1W	3413	482205120109	RES., CHIP	10R00 5%	0,1W
307		RES., CHIP	0R00 JUMP. (080	05)	3414	482205120109	RES., CHIP	10R00 5%	0,1W
							RES., CHIP	10R00 5%	0,1W
_ 308		RES., CHIP	22K00 5%	0,1W	3415				
308	1 482205120223	RES., CHIP	22K00 5%	0,1W	3416	482205120109	RES., CHIP	10R00 5%	0,1W
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0447	400005100100	DEC CHID	10D00 E9/	0,1W	3706	482205120104	RES., CHIP	100K005% 0,	1W
3417	482205120109	RES., CHIP	10R00 5%	•					
3418	482205120109	RES., CHIP	10R00 5%	0,1W	3711	482205120274	RES., CHIP	270K005% 0,	.1W
3419	482205120109	RES., CHIP	10R00 5%	0,1W	3712	482205120822	RES., CHIP	8K20 5% 0,	1W
							•	·	
3420	482205120109	RES., CHIP	10R00 5%	0,1W	3713	482205120473	RES., CHIP		1W
3500	482205120104	RES., CHIP	100K005%	0,1W	3714	482205120274	RES., CHIP	270K005% 0,	1W
						400005100000	RES., CHIP	8K20 5% 0,	1W
3501	482205120104	RES., CHIP	100K005%	0,1W	3715	482205120822			
3502	482205120224	RES., CHIP	220K005%	0,1W	3716	482211710965	RES., CHIP	18K 1% 0,	1W
				0,1W	3717	482205120223	RES., CHIP	22K00 5% 0,	1W
3503	482205120473	RES., CHIP	47K00 1%	•			•		
3504	482205120223	RES., CHIP	22K00 5%	0,1W	3718	482205120272	RES., CHIP	2K70 5% 0,	1W
3505	482211710833	RES., CHIP	10K 1%	0,1W	3719	482205120479	RES., CHIP	47R00 5% 0,	1W
3509	482205120331	RES., CHIP	330R005%	0,1W	3720	482205120109	RES., CHIP		1W
3510	482205120474	RES., CHIP	470K005%	0,1W	3721	482205120104	RES., CHIP	100K005% 0,	1W
		•							1W
3511	482205120224	RES., CHIP	220K005%	0,1W	3722	482205120104	RES., CHIP		ė.
3512	482205120473	RES., CHIP	47K00 1%	0,1W	3725	482205120223	RES., CHIP	22K00 5% 0,	1W
		RES., CHIP	68K00 5%	0,1W	3729	482205120104	RES., CHIP	100K005% 0,	1W
3513	482205120683							· · · · · · · · · · · · · · · · · · ·	
3514	482205120102	RES., CHIP	1K00 5%	0,1W	3733	482205120104	RES., CHIP		1W
3515	482205120104	RES., CHIP	100K005%	0,1W	3736	482211710507	RES., CHIP	24K 1% 0,	1W -
		· ·							1W
3517	482205120224	RES., CHIP	220K005%	0,1W	3737	482210011681	RES., VARIAB.		
3518	482205120472	RES., CHIP	4K70 5%	0,1W	3739	482211710507	RES., CHIP	24K 1% 0,	1W
		RES., CHIP	220K005%	0,1W	3741	482205120471	RES., CHIP	470R005% 0,	1W
3519	482205120224	•							
3520	482205120224	RES., CHIP	220K005%	0,1W	3742	482210011681	RES., VARIAB.	1K 30% 0,	1W
3522	482205120473	RES., CHIP	47K00 1%	0,1W	3745	482211710507	RES., CHIP	24K 1% 0,	1W
									1W
3524	482205120223	RES., CHIP	22K00 5%	0,1W	3747	482205120471	RES., CHIP		
3525	482211711447	RES., CARBON	1K2 1%	0,1W	3748	482205120272	RES., CHIP	2K70 5% 0,	1W
		RES., CARBON	2K2 1%	0,1W	3749	482211710507	RES., CHIP	24K 1% 0,	1W
3526	482211711449							· ·	
3527	482211711377	RES., CHIP	5K1 1%	0,1W	3750	482205120272	RES., CHIP	· ·	1W
3528	482211712817	RES., NON-LIN.	4K7 5%	0,21W	3800	482205120332	RES., CHIP	3K30 5% 0,	1W
3529	482205120223	RES., CHIP	22K00 5%	0,1W	3801	482211710965	RES., CHIP		1W
3530	482211710837	RES., CHIP	100K 1%	0,1W	3802	482205120109	RES., CHIP	10R00 5% 0,	1W
		•		0,1W	3804	482205120473	RES., CHIP		1W
3531	482205120224	RES., CHIP	220K005%	•					
3532	482205120479	RES., CHIP	47R00 5%	0,1W	3805	482205120104	RES., CHIP	100K005% 0,	1W
3533	482211710833	RES., CHIP	10K 1%	0,1W	3812	482205120683	RES., CHIP	68K00 5% 0,	1W
3534	482205120104	RES., CHIP	100K005%	0,1W	3813	482205120272	RES., CHIP	· · · · · · · · · · · · · · · · · · ·	1W
3535	482205120473	RES., CHIP	47K00 1%	0,1W	3815	482205120223	RES., CHIP	22K00 5% 0,	.1W
				0,1W	3816	482205120104	RES., CHIP	100K005% 0,	1W
3536	482211710833	RES., CHIP	10K 1%						
3537	482205120104	RES., CHIP	100K005%	0,1W	3820	482205120223	RES., CHIP	22K00 5% 0,	.1W
3538	482205120104	DEO OLUD	4001/00 50/						4141
		RES CHIP	100K005%	O 1\W	3821	482211710833	RES CHIP	10K 1% 0.	. I VV
		RES., CHIP	100K005%	0,1W	3821	482211710833	RES., CHIP		1W
3539	482205120104	RES., CHIP	100K005% 220K005%	0,1W 0,1W	3821 3828	4822117 10833 482205120479	RES., CHIP RES., CHIP		1W
3539	482205120224	RES., CHIP	220K005%	0,1W	3828	482205120479	RES., CHIP	47R00 5% 0,	1W
3539 3540	482205120224 482211710833	RES., CHIP RES., CHIP	220K005% 10K 1%	0,1W 0,1W	3828 4100	482205120479 482205120008	RES., CHIP RES., CHIP	47R00 5% 0, 0R00 JUMP. (0805)	,1W
3539	482205120224	RES., CHIP	220K005%	0,1W 0,1W 0,1W	3828 4100 4101	482205120479 482205120008 482205120008	RES., CHIP RES., CHIP RES., CHIP	47R00 5% 0, 0R00 JUMP. (0805) 0R00 JUMP. (0805)	,1W
3539 3540 3541	482205120224 482211710833 482205120102	RES., CHIP RES., CHIP RES., CHIP	220K005% 10K 1%	0,1W 0,1W	3828 4100	482205120479 482205120008	RES., CHIP RES., CHIP	47R00 5% 0, 0R00 JUMP. (0805) 0R00 JUMP. (0805)	,1W
3539 3540 3541 3542	482205120224 482211710833 482205120102 482211710833	RES., CHIP RES., CHIP RES., CHIP RES., CHIP	220K005% 10K 1% 1K00 5% 10K 1%	0,1W 0,1W 0,1W 0,1W	3828 4100 4101 4401	482205120479 482205120008 482205120008 482205110008	RES., CHIP RES., CHIP RES., CHIP RES., CHIP	47R00 5% 0, 0R00 JUMP. (0805) 0R00 JUMP. (0805) 0R00 5% 0,	1W 25W
3539 3540 3541 3542 3543	482205120224 482211710833 482205120102 482211710833 482205120473	RES., CHIP RES., CHIP RES., CHIP RES., CHIP	220K005% 10K 1% 1K00 5% 10K 1% 47K00 1%	0,1W 0,1W 0,1W 0,1W 0,1W	3828 4100 4101 4401 4403	482205120479 482205120008 482205120008 482205110008 482205110008	RES., CHIP RES., CHIP RES., CHIP RES., CHIP RES., CHIP	47R00 5% 0, 0R00 JUMP. (0805) 0R00 JUMP. (0805) 0R00 5% 0, 0R00 5% 0,	.25W .25W
3539 3540 3541 3542	482205120224 482211710833 482205120102 482211710833	RES., CHIP RES., CHIP RES., CHIP RES., CHIP	220K005% 10K 1% 1K00 5% 10K 1%	0,1W 0,1W 0,1W 0,1W	3828 4100 4101 4401	482205120479 482205120008 482205120008 482205110008	RES., CHIP RES., CHIP RES., CHIP RES., CHIP	47R00 5% 0, 0R00 JUMP. (0805) 0R00 JUMP. (0805) 0R00 5% 0,	.25W .25W
3539 3540 3541 3542 3543 3544	482205120224 482211710833 482205120102 482211710833 482205120473 482205120224	RES., CHIP RES., CHIP RES., CHIP RES., CHIP RES., CHIP RES., CHIP	220K005% 10K 1% 1K00 5% 10K 1% 47K00 1% 220K005%	0,1W 0,1W 0,1W 0,1W 0,1W 0,1W	3828 4100 4101 4401 4403 4404	482205120479 482205120008 482205120008 482205110008 482205110008 482205120008	RES., CHIP RES., CHIP RES., CHIP RES., CHIP RES., CHIP RES., CHIP	47R00 5% 0, 0R00 JUMP. (0805) 0R00 JUMP. (0805) 0R00 5% 0, 0R00 5% 0,	.25W .25W
3539 3540 3541 3542 3543 3544 3545	482205120224 482211710833 482205120102 482211710833 482205120473 482205120224 482205120683	RES., CHIP RES., CHIP RES., CHIP RES., CHIP RES., CHIP RES., CHIP	220K00 5% 10K 1% 1K00 5% 10K 1% 47K00 1% 220K00 5% 68K00 5%	0,1W 0,1W 0,1W 0,1W 0,1W 0,1W	3828 4100 4101 4401 4403 4404 4406	482205120479 482205120008 482205120008 482205110008 482205110008 482205120008 482205120008	RES., CHIP RES., CHIP RES., CHIP RES., CHIP RES., CHIP RES., CHIP RES., CHIP	47R00 5% 0, 0R00 JUMP. (0805) 0R00 JUMP. (0805) 0R00 5% 0, 0R00 5% 0, 0R00 JUMP. (0805) 0R00 JUMP. (0805)	.25W .25W
3539 3540 3541 3542 3543 3544 3545 3549	482205120224 482211710833 482205120102 482211710833 482205120473 482205120224 482205120683 482205120473	RES., CHIP RES., CHIP RES., CHIP RES., CHIP RES., CHIP RES., CHIP RES., CHIP	220K00 5% 10K 1% 1K00 5% 10K 1% 47K00 1% 220K00 5% 68K00 5% 47K00 1%	0,1W 0,1W 0,1W 0,1W 0,1W 0,1W 0,1W	3828 4100 4101 4401 4403 4404 4406 4412	482205120479 482205120008 482205120008 482205110008 482205110008 482205120008 482205120008 482205110008	RES., CHIP RES., CHIP RES., CHIP RES., CHIP RES., CHIP RES., CHIP RES., CHIP RES., CHIP	47R00 5% 0, 0R00 JUMP. (0805) 0R00 JUMP. (0805) 0R00 5% 0, 0R00 5% 0, 0R00 JUMP. (0805) 0R00 JUMP. (0805) 0R00 JUMP. (0805)	.25W .25W .25W
3539 3540 3541 3542 3543 3544 3545 3549	482205120224 482211710833 482205120102 482211710833 482205120473 482205120224 482205120683	RES., CHIP RES., CHIP RES., CHIP RES., CHIP RES., CHIP RES., CHIP	220K00 5% 10K 1% 1K00 5% 10K 1% 47K00 1% 220K00 5% 68K00 5%	0,1W 0,1W 0,1W 0,1W 0,1W 0,1W	3828 4100 4101 4401 4403 4404 4406	482205120479 482205120008 482205120008 482205110008 482205110008 482205120008 482205120008	RES., CHIP RES., CHIP RES., CHIP RES., CHIP RES., CHIP RES., CHIP RES., CHIP	47R00 5% 0, 0R00 JUMP. (0805) 0R00 JUMP. (0805) 0R00 5% 0, 0R00 5% 0, 0R00 JUMP. (0805) 0R00 JUMP. (0805) 0R00 JUMP. (0805) 0R00 5% 0, 0R00 5% 0,	.25W .25W .25W .25W
3539 3540 3541 3542 3543 3544 3545 3549 3550	482205120224 482211710833 482205120102 482211710833 482205120473 482205120224 482205120683 482205120473 482205120224	RES., CHIP RES., CHIP RES., CHIP RES., CHIP RES., CHIP RES., CHIP RES., CHIP RES., CHIP	220K00 5% 10K 1% 1K00 5% 10K 1% 47K00 1% 220K00 5% 68K00 5% 47K00 1% 220K00 5%	0,1W 0,1W 0,1W 0,1W 0,1W 0,1W 0,1W 0,1W	3828 4100 4101 4401 4403 4404 4406 4412 4414	482205120479 482205120008 482205120008 482205110008 482205110008 482205120008 482205120008 482205110008 482205110008	RES., CHIP RES., CHIP RES., CHIP RES., CHIP RES., CHIP RES., CHIP RES., CHIP RES., CHIP RES., CHIP	47R00 5% 0, 0R00 JUMP. (0805) 0R00 JUMP. (0805) 0R00 5% 0, 0R00 5% 0, 0R00 JUMP. (0805) 0R00 JUMP. (0805) 0R00 JUMP. (0805) 0R00 5% 0, 0R00 5% 0,	.25W .25W .25W .25W
3539 3540 3541 3542 3543 3544 3545 3549 3550 3551	482205120224 482211710833 482205120102 482211710833 482205120473 482205120224 482205120683 482205120473 482205120224 482205120224	RES., CHIP RES., CHIP RES., CHIP RES., CHIP RES., CHIP RES., CHIP RES., CHIP RES., CHIP RES., CHIP RES., CHIP	220K00 5% 10K 1% 1K00 5% 10K 1% 47K00 1% 220K00 5% 68K00 5% 47K00 1% 220K00 5% 22K00 5%	0,1W 0,1W 0,1W 0,1W 0,1W 0,1W 0,1W 0,1W	3828 4100 4101 4401 4403 4404 4406 4412 4414 4702	482205120479 482205120008 482205120008 482205110008 482205110008 482205120008 482205120008 482205110008 482205110008 482205110008	RES., CHIP RES., CHIP RES., CHIP RES., CHIP RES., CHIP RES., CHIP RES., CHIP RES., CHIP RES., CHIP RES., CHIP	47R00 5% 0, 0R00 JUMP. (0805) 0R00 JUMP. (0805) 0R00 5% 0, 0R00 5% 0, 0R00 JUMP. (0805) 0R00 JUMP. (0805) 0R00 5% 0, 0R00 5% 0, 0R00 5% 0, 0R00 JUMP. (0805)	.25W .25W .25W .25W
3539 3540 3541 3542 3543 3544 3545 3549 3550	482205120224 482211710833 482205120102 482211710833 482205120473 482205120224 482205120683 482205120473 482205120224 482205120224	RES., CHIP RES., CHIP	220K00 5% 10K 1% 1K00 5% 10K 1% 47K00 1% 220K00 5% 68K00 5% 47K00 1% 220K00 5% 22K00 5% 47K00 1%	0,1W 0,1W 0,1W 0,1W 0,1W 0,1W 0,1W 0,1W	3828 4100 4101 4401 4403 4404 4406 4412 4414 4702 4703	482205120479 482205120008 482205120008 482205110008 482205110008 482205120008 482205120008 482205110008 482205110008 482205120008 482205120008	RES., CHIP RES., CHIP	47R00 5% 0, 0R00 JUMP. (0805) 0R00 JUMP. (0805) 0R00 5% 0, 0R00 JUMP. (0805) 0R00 JUMP. (0805) 0R00 5% 0, 0R00 5% 0, 0R00 JUMP. (0805)	.25W .25W .25W .25W
3539 3540 3541 3542 3543 3544 3545 3549 3550 3551	482205120224 482211710833 482205120102 482211710833 482205120473 482205120224 482205120473 482205120473 482205120224 482205120223 482205120473	RES., CHIP RES., CHIP RES., CHIP RES., CHIP RES., CHIP RES., CHIP RES., CHIP RES., CHIP RES., CHIP RES., CHIP	220K00 5% 10K 1% 1K00 5% 10K 1% 47K00 1% 220K00 5% 68K00 5% 47K00 1% 220K00 5% 22K00 5%	0,1W 0,1W 0,1W 0,1W 0,1W 0,1W 0,1W 0,1W	3828 4100 4101 4401 4403 4404 4406 4412 4414 4702	482205120479 482205120008 482205120008 482205110008 482205110008 482205120008 482205120008 482205110008 482205110008 482205110008	RES., CHIP RES., CHIP RES., CHIP RES., CHIP RES., CHIP RES., CHIP RES., CHIP RES., CHIP RES., CHIP RES., CHIP	47R00 5% 0, 0R00 JUMP. (0805) 0R00 JUMP. (0805) 0R00 5% 0, 0R00 5% 0, 0R00 JUMP. (0805) 0R00 JUMP. (0805) 0R00 5% 0, 0R00 5% 0, 0R00 5% 0, 0R00 JUMP. (0805)	.25W .25W .25W .25W
3539 3540 3541 3542 3543 3544 3545 3549 3550 3551 3552 3553	482205120224 4822117 10833 482205120102 4822117 10833 482205120473 482205120224 482205120473 482205120473 482205120224 482205120223 482205120473 482205120473	RES., CHIP RES., CHIP	220K00 5% 10K 1% 1K00 5% 10K 1% 47K00 1% 220K00 5% 68K00 5% 47K00 1% 220K00 5% 22K00 5% 47K00 1% 1K00 5%	0,1W 0,1W 0,1W 0,1W 0,1W 0,1W 0,1W 0,1W	3828 4100 4101 4401 4403 4404 4406 4412 4414 4702 4703 4800	482205120479 482205120008 482205120008 482205110008 482205110008 482205120008 482205120008 482205110008 482205110008 482205120008 482205120008 482205120008	RES., CHIP RES., CHIP	47R00 5% 0, 0R00 JUMP. (0805) 0R00 JUMP. (0805) 0R00 5% 0, 0R00 JUMP. (0805) 0R00 JUMP. (0805) 0R00 5% 0, 0R00 JUMP. (0805)	.25W .25W .25W .25W .25W
3539 3540 3541 3542 3543 3544 3545 3550 3551 3552 3553 3555	482205120224 4822117 10833 482205120102 4822117 10833 482205120473 482205120224 482205120473 482205120224 482205120224 482205120223 482205120473 482205120102 482205120102	RES., CHIP RES., CHIP	220K00 5% 10K 1% 1K00 5% 10K 1% 47K00 1% 220K00 5% 68K00 5% 47K00 1% 220K00 5% 22K00 5% 47K00 1% 1K00 5% 1K00 5%	0,1W 0,1W 0,1W 0,1W 0,1W 0,1W 0,1W 0,1W	3828 4100 4101 4401 4403 4404 4406 4412 4414 4702 4703	482205120479 482205120008 482205120008 482205110008 482205110008 482205120008 482205120008 482205110008 482205110008 482205120008 482205120008	RES., CHIP RES., CHIP	47R00 5% 0, 0R00 JUMP. (0805) 0R00 JUMP. (0805) 0R00 5% 0, 0R00 JUMP. (0805) 0R00 JUMP. (0805) 0R00 5% 0, 0R00 5% 0, 0R00 JUMP. (0805)	.25W .25W .25W .25W .25W
3539 3540 3541 3542 3543 3544 3545 3550 3551 3552 3553 3555	482205120224 4822117 10833 482205120102 4822117 10833 482205120473 482205120224 482205120473 482205120473 482205120224 482205120223 482205120473 482205120473	RES., CHIP	220K00 5% 10K 1% 1K00 5% 10K 1% 47K00 1% 220K00 5% 68K00 5% 47K00 1% 220K00 5% 22K00 5% 47K00 1% 1K00 5%	0,1W 0,1W 0,1W 0,1W 0,1W 0,1W 0,1W 0,1W	3828 4100 4101 4401 4403 4404 4406 4412 4414 4702 4703 4800 4801	482205120479 482205120008 482205120008 482205110008 482205110008 482205120008 482205120008 482205110008 482205110008 482205120008 482205120008 482205120008 482205120008	RES., CHIP RES., CHIP	47R00 5% 0, 0R00 JUMP. (0805) 0R00 JUMP. (0805) 0R00 5% 0, 0R00 5% 0, 0R00 JUMP. (0805) 0R00 JUMP. (0805) 0R00 5% 0, 0R00 5% 0, 0R00 5% 0, 0R00 JUMP. (0805) 0R00 JUMP. (0805) 0R00 JUMP. (0805) 0R00 JUMP. (0805)	.25W .25W .25W .25W .25W
3539 3540 3541 3542 3543 3544 3545 3550 3551 3552 3553 3555 3556	482205120224 4822117 10833 482205120102 4822117 10833 482205120473 482205120224 482205120473 482205120224 482205120224 482205120223 482205120473 482205120102 482205120102 482205120102	RES., CHIP	220K00 5% 10K 1% 1K00 5% 10K 1% 47K00 1% 220K00 5% 68K00 5% 47K00 1% 220K00 5% 22K00 5% 47K00 1% 1K00 5% 1K00 5%	0,1W 0,1W 0,1W 0,1W 0,1W 0,1W 0,1W 0,1W	3828 4100 4101 4401 4403 4404 4406 4412 4414 4702 4703 4800	482205120479 482205120008 482205120008 482205110008 482205110008 482205120008 482205120008 482205110008 482205110008 482205120008 482205120008 482205120008 482205120008	RES., CHIP RES., CHIP	47R00 5% 0, 0R00 JUMP. (0805) 0R00 JUMP. (0805) 0R00 5% 0, 0R00 JUMP. (0805) 0R00 JUMP. (0805) 0R00 5% 0, 0R00 5% 0, 0R00 JUMP. (0805)	.25W .25W .25W .25W .25W
3539 3540 3541 3542 3543 3544 3545 3550 3551 3552 3553 3555 3556 3557	482205120224 4822117 10833 482205120102 4822117 10833 482205120473 482205120224 482205120473 482205120224 482205120224 482205120223 482205120102 482205120102 482205120102 482205120102 482205120102	RES., CHIP	220K00 5% 10K 1% 1K00 5% 10K 1% 47K00 1% 220K00 5% 68K00 5% 47K00 1% 220K00 5% 22K00 5% 47K00 1% 1K00 5% 1K00 5% 1K00 5% 220K00 5%	0,1W 0,1W 0,1W 0,1W 0,1W 0,1W 0,1W 0,1W	3828 4100 4101 4401 4403 4404 4406 4412 4702 4703 4800 4801	482205120479 482205120008 482205120008 482205110008 482205110008 482205120008 482205120008 482205110008 482205110008 482205120008 482205120008 482205120008 482205120008	RES., CHIP RES., CHIP	47R00 5% 0, 0R00 JUMP. (0805) 0R00 JUMP. (0805) 0R00 5% 0, 0R00 5% 0, 0R00 JUMP. (0805) 0R00 JUMP. (0805) 0R00 5% 0, 0R00 5% 0, 0R00 5% 0, 0R00 JUMP. (0805) 0R00 JUMP. (0805) 0R00 JUMP. (0805) 0R00 JUMP. (0805)	.25W .25W .25W .25W .25W
3539 3540 3541 3542 3543 3544 3545 3550 3551 3552 3553 3555 3556 3557 3600	482205120224 4822117 10833 482205120102 4822117 10833 482205120473 482205120224 482205120473 482205120224 482205120224 482205120223 482205120102 482205120102 482205120102 482205120102 482205120102 482205120101	RES., CHIP	220K00 5% 10K 1% 1K00 5% 10K 1% 47K00 1% 220K00 5% 68K00 5% 47K00 1% 220K00 5% 22K00 5% 47K00 1% 1K00 5% 1K00 5% 1K00 5% 220K00 5% 1K00 5% 1K00 5%	0,1W 0,1W 0,1W 0,1W 0,1W 0,1W 0,1W 0,1W	3828 4100 4101 4401 4403 4404 4406 4412 4702 4703 4800 4801 COILS 5100	482205120479 482205120008 482205120008 482205110008 482205110008 482205120008 482205120008 482205110008 482205110008 482205120008 482205120008 482205120008 482205120008	RES., CHIP	47R00 5% 0, 0R00 JUMP. (0805) 0R00 JUMP. (0805) 0R00 5% 0, 0R00 JUMP. (0805) 0R00 JUMP. (0805) 0R00 5% 0, 0R00 5% 0, 0R00 JUMP. (0805)	.25W .25W .25W .25W .25W
3539 3540 3541 3542 3543 3544 3545 3550 3551 3552 3553 3555 3556 3557 3600	482205120224 4822117 10833 482205120102 4822117 10833 482205120473 482205120224 482205120473 482205120224 482205120224 482205120223 482205120102 482205120102 482205120102 482205120102 482205120102	RES., CHIP	220K00 5% 10K 1% 1K00 5% 10K 1% 47K00 1% 220K00 5% 68K00 5% 47K00 1% 220K00 5% 22K00 5% 47K00 1% 1K00 5% 1K00 5% 1K00 5% 220K00 5%	0,1W 0,1W 0,1W 0,1W 0,1W 0,1W 0,1W 0,1W	3828 4100 4101 4401 4403 4404 4406 4412 4702 4703 4800 4801	482205120479 482205120008 482205120008 482205110008 482205110008 482205120008 482205120008 482205110008 482205110008 482205120008 482205120008 482205120008 482205120008	RES., CHIP RES., CHIP	47R00 5% 0, 0R00 JUMP. (0805) 0R00 JUMP. (0805) 0R00 5% 0, 0R00 JUMP. (0805) 0R00 JUMP. (0805) 0R00 5% 0, 0R00 5% 0, 0R00 JUMP. (0805)	.25W .25W .25W .25W .25W
3539 3540 3541 3542 3543 3544 3545 3550 3551 3552 3553 3555 3556 3557 3600 3601	482205120224 4822117 10833 482205120102 4822117 10833 482205120473 482205120224 482205120473 482205120224 482205120224 482205120223 482205120102 482205120102 482205120102 482205120102 482205120101 482205120101 482205120101	RES., CHIP	220K00 5% 10K 1% 1K00 5% 10K 1% 47K00 1% 220K00 5% 68K00 5% 47K00 1% 220K00 5% 47K00 1% 1K00 5% 1K00 5% 1K00 5% 120K00 5% 100R005% 1K00 5%	0,1W 0,1W 0,1W 0,1W 0,1W 0,1W 0,1W 0,1W	3828 4100 4101 4401 4403 4404 4406 4412 4702 4703 4800 4801 COILS 5100 5101	482205120479 482205120008 482205120008 482205110008 482205110008 482205120008 482205120008 482205110008 482205110008 482205110008 482205120008 482205120008 482205120008 482205120008	RES., CHIP	47R00 5% 0, 0R00 JUMP. (0805) 0R00 JUMP. (0805) 0R00 5% 0, 0R00 JUMP. (0805) 0R00 JUMP. (0805) 0R00 5% 0, 0R00 5% 0, 0R00 JUMP. (0805)	.25W .25W .25W .25W .25W
3539 3540 3541 3542 3543 3544 3545 3550 3551 3552 3555 3556 3557 3600 3601 3602	482205120224 4822117 10833 482205120102 4822117 10833 482205120473 482205120224 482205120473 482205120224 482205120224 482205120223 482205120102 482205120102 482205120102 482205120102 482205120101 482205120101 482205120101 482205120101	RES., CHIP	220K00 5% 10K 1% 1K00 5% 10K 1% 47K00 1% 220K00 5% 68K00 5% 47K00 1% 220K00 5% 22K00 5% 47K00 1% 1K00 5% 1K00 5% 1K00 5% 220K00 5% 1K00 5% 1K00 5% 1K00 5% 1K00 5% 1K00 5% 1K00 5% 1K00 5% 1K00 5% 1K00 5%	0,1W 0,1W 0,1W 0,1W 0,1W 0,1W 0,1W 0,1W	3828 4100 4101 4401 4403 4404 4406 4412 4702 4703 4800 4801 COILS 5100 5101 5200	482205120479 482205120008 482205120008 482205110008 482205110008 482205120008 482205120008 482205110008 482205110008 482205110008 482205120008 482205120008 482205120008 482205120008 482215771267 482215771267 482215771267	RES., CHIP	47R00 5% 0, 0R00 JUMP. (0805) 0R00 JUMP. (0805) 0R00 5% 0, 0R00 JUMP. (0805) 0R00 JUMP. (0805) 0R00 5% 0, 0R00 5% 0, 0R00 JUMP. (0805)	.25W .25W .25W .25W
3539 3540 3541 3542 3543 3544 3545 3550 3551 3552 3555 3556 3557 3600 3601 3602	482205120224 4822117 10833 482205120102 4822117 10833 482205120473 482205120224 482205120473 482205120224 482205120224 482205120223 482205120102 482205120102 482205120102 482205120102 482205120101 482205120101 482205120101	RES., CHIP	220K00 5% 10K 1% 1K00 5% 10K 1% 47K00 1% 220K00 5% 68K00 5% 47K00 1% 220K00 5% 47K00 1% 1K00 5% 1K00 5% 1K00 5% 1C0R005% 1C0R005% 1K00 5% 47K00 5% 1C0R005% 1K00 5% 1K00 5% 1K00 5%	0,1W 0,1W 0,1W 0,1W 0,1W 0,1W 0,1W 0,1W	3828 4100 4101 4401 4403 4404 4406 4412 4702 4703 4800 4801 COILS 5100 5101 5200 5500	482205120479 482205120008 482205120008 482205110008 482205110008 482205120008 482205120008 482205110008 482205110008 482205110008 482205120008 482205120008 482205120008 482205120008 482215771267 482215771267 482215771294	RES., CHIP	47R00 5% 0, 0R00 JUMP. (0805) 0R00 JUMP. (0805) 0R00 5% 0, 0R00 JUMP. (0805) 0R00 JUMP. (0805) 0R00 5% 0, 0R00 5% 0, 0R00 JUMP. (0805)	.25W .25W .25W .25W
3539 3540 3541 3542 3543 3544 3545 3550 3551 3552 3555 3556 3557 3600 3601 3602 3603	482205120224 4822117 10833 482205120102 4822117 10833 482205120473 482205120224 482205120473 482205120224 482205120224 482205120223 482205120102 482205120102 482205120102 482205120102 482205120101 482205120101 482205120101 482205120101	RES., CHIP	220K00 5% 10K 1% 1K00 5% 10K 1% 47K00 1% 220K00 5% 68K00 5% 47K00 1% 220K00 5% 22K00 5% 47K00 1% 1K00 5% 1K00 5% 1K00 5% 220K00 5% 1K00 5% 1K00 5% 1K00 5% 1K00 5% 1K00 5% 1K00 5% 1K00 5% 1K00 5% 1K00 5%	0,1W 0,1W 0,1W 0,1W 0,1W 0,1W 0,1W 0,1W	3828 4100 4101 4401 4403 4404 4406 4412 4702 4703 4800 4801 COILS 5100 5101 5200	482205120479 482205120008 482205120008 482205110008 482205110008 482205120008 482205120008 482205110008 482205110008 482205110008 482205120008 482205120008 482205120008 482205120008 482215771267 482215771267 482215771267	RES., CHIP	47R00 5% 0, 0R00 JUMP. (0805) 0R00 JUMP. (0805) 0R00 5% 0, 0R00 JUMP. (0805) 0R00 JUMP. (0805) 0R00 5% 0, 0R00 5% 0, 0R00 JUMP. (0805)	.25W .25W .25W .25W
3539 3540 3541 3542 3543 3544 3545 3550 3551 3552 3555 3556 3557 3600 3601 3602 3603 3604	482205120224 482211710833 482205120102 482211710833 482205120473 482205120224 482205120224 482205120223 482205120223 482205120223 482205120102 482205120102 482205120102 482205120101 482205120101 482205120101 482205120101 482205120102 482205120102 482205120101 482205120102 482205120102 482205120102 482205120102 482205120102 48220512072	RES., CHIP	220K00 5% 10K 1% 1K00 5% 10K 1% 47K00 1% 220K00 5% 68K00 5% 47K00 1% 220K00 5% 47K00 1% 1K00 5% 1K00 5% 1K00 5% 100R005% 1K00 5% 470R005% 2K70 5% 2K70 5%	0,1W 0,1W 0,1W 0,1W 0,1W 0,1W 0,1W 0,1W	3828 4100 4101 4401 4403 4404 4406 4412 4702 4703 4800 4801 COILS 5100 5101 5200 5500 5501	482205120479 482205120008 482205120008 482205110008 482205110008 482205120008 482205120008 482205110008 482205120008 482205120008 482205120008 482205120008 482205120008 482215771267 482215771267 482215771294 4822157711396	RES., CHIP	47R00 5% 0, 0R00 JUMP. (0805) 0R00 JUMP. (0805) 0R00 5% 0, 0R00 JUMP. (0805) 0R00 JUMP. (0805) 0R00 5% 0, 0R00 5% 0, 0R00 JUMP. (0805)	.25W .25W .25W .25W
3539 3540 3541 3542 3543 3544 3545 3550 3551 3552 3553 3556 3557 3600 3601 3602 3603 3604 3606	482205120224 4822117 10833 482205120102 4822117 10833 482205120473 482205120224 48220512024 482205120223 482205120223 482205120102 482205120102 482205120102 482205120102 482205120101 482205120102 482205120101 482205120102 482205120102 482205120102 482205120102 482205120102 482205120102 482205120102 482205120102 48220512072 48220512072 48220512072	RES., CHIP	220K00 5% 10K 1% 1K00 5% 10K 1% 47K00 1% 220K00 5% 68K00 5% 47K00 1% 220K00 5% 47K00 1% 1K00 5% 1K00 5% 1K00 5% 1C0R005% 1K00 5% 47K00 5% 47K00 5% 1K00 5%	0,1W 0,1W 0,1W 0,1W 0,1W 0,1W 0,1W 0,1W	3828 4100 4101 4401 4403 4404 4406 4412 4702 4703 4800 4801 COILS 5100 5101 5200 5500 5501 5600	482205120479 482205120008 482205120008 482205110008 482205110008 482205120008 482205120008 482205120008 482205120008 482205120008 482205120008 482205120008 482205120008 482215771267 482215771267 482215771267 482215771294 482215771294 482215771267	RES., CHIP	47R00 5% 0, 0R00 JUMP. (0805) 0R00 JUMP. (0805) 0R00 5% 0, 0R00 5% 0, 0R00 JUMP. (0805) 0R00 5% 0, 0R00 5% 0, 0R00 JUMP. (0805)	.25W .25W .25W .25W
3539 3540 3541 3542 3543 3544 3545 3550 3551 3552 3555 3556 3557 3600 3601 3602 3603 3604	482205120224 482211710833 482205120102 482211710833 482205120473 482205120224 482205120224 482205120223 482205120223 482205120223 482205120102 482205120102 482205120102 482205120101 482205120101 482205120101 482205120101 482205120102 482205120102 482205120101 482205120102 482205120102 482205120102 482205120102 482205120102 48220512072	RES., CHIP	220K00 5% 10K 1% 1K00 5% 10K 1% 47K00 1% 220K00 5% 68K00 5% 47K00 1% 220K00 5% 47K00 1% 1K00 5% 1K00 5% 1K00 5% 100R005% 1K00 5% 470R005% 2K70 5% 2K70 5%	0,1W 0,1W 0,1W 0,1W 0,1W 0,1W 0,1W 0,1W	3828 4100 4101 4401 4403 4404 4406 4412 4702 4703 4800 4801 COILS 5100 5101 5200 5500 5501 5600	482205120479 482205120008 482205120008 482205110008 482205110008 482205120008 482205120008 482205110008 482205120008 482205120008 482205120008 482205120008 482205120008 482215771267 482215771267 482215771294 4822157711396	RES., CHIP	47R00 5% 0, 0R00 JUMP. (0805) 0R00 JUMP. (0805) 0R00 5% 0, 0R00 5% 0, 0R00 JUMP. (0805) 0R00 5% 0, 0R00 5% 0, 0R00 JUMP. (0805)	.25W .25W .25W .25W
3539 3540 3541 3542 3543 3544 3545 3550 3551 3552 3555 3556 3557 3600 3601 3602 3603 3604 3606 3608	482205120224 4822117 10833 482205120102 4822117 10833 482205120473 482205120224 48220512023 48220512023 48220512023 482205120102 482205120102 482205120102 482205120102 482205120102 482205120102 482205120102 482205120102 482205120102 482205120102 482205120102 482205120102 482205120102 482205120102 48220512072 48220512072 48220512072	RES., CHIP	220K00 5% 10K 1% 1K00 5% 10K 1% 47K00 1% 220K00 5% 68K00 5% 47K00 1% 220K00 5% 47K00 1% 1K00 5% 1K00 5% 1K00 5% 1K00 5% 470R005% 1K00 5% 1K00 5% 470R005% 1K00 5% 1K00 5%	0,1W 0,1W 0,1W 0,1W 0,1W 0,1W 0,1W 0,1W 0,1W 0,1W 0,1W 0,1W 0,1W 0,1W 0,1W 0,1W 0,1W 0,1W 0,1W 0,1W	3828 4100 4101 4401 4403 4404 4406 4412 4414 4702 4703 4800 5101 5200 5501 5600 5601	482205120479 482205120008 482205120008 482205110008 482205110008 482205120008 482205120008 482205120008 482205120008 482205120008 482205120008 482205120008 482205120008 482215771267 482215771267 482215771267 482215771267 482215771267 482215771267 482215771267 482215771267 482215771267 482215771267	RES., CHIP	47R00 5% 0, 0R00 JUMP. (0805) 0R00 JUMP. (0805) 0R00 5% 0, 0R00 JUMP. (0805) 0R00 JUMP. (0805) 0R00 5% 0, 0R00 5% 0, 0R00 JUMP. (0805)	.25W .25W .25W .25W
3539 3540 3541 3542 3543 3544 3545 3550 3551 3552 3555 3555 3556 3557 3600 3601 3602 3603 3604 3606 3608 3609	482205120224 4822117 10833 482205120102 4822117 10833 482205120473 482205120224 482205120224 482205120223 482205120223 482205120102 482205120102 482205120102 482205120102 482205120102 482205120102 482205120102 482205120102 482205120102 482205120102 482205120102 482205120102 482205120471 482205120272 48220512072 482205120102 482205120102 482205120102 482205120102	RES., CHIP	220K00 5% 10K 1% 1K00 5% 10K 1% 47K00 1% 220K00 5% 68K00 5% 47K00 1% 220K00 5% 47K00 1% 1K00 5% 1K00 5% 1K00 5% 1K00 5% 1K00 5% 470R005% 2K70 5% 1K00 5%	0,1W 0,1W	3828 4100 4101 4401 4403 4404 4406 4412 4414 4702 4703 4800 5101 5200 5501 5600 5601	482205120479 482205120008 482205120008 482205110008 482205110008 482205120008 482205120008 482205120008 482205120008 482205120008 482205120008 482205120008 482205120008 482215771267 482215771267 482215771267 482215771294 482215771294 482215771267	RES., CHIP	47R00 5% 0, 0R00 JUMP. (0805) 0R00 JUMP. (0805) 0R00 5% 0, 0R00 JUMP. (0805) 0R00 JUMP. (0805) 0R00 5% 0, 0R00 5% 0, 0R00 JUMP. (0805)	.25W .25W .25W .25W
3539 3540 3541 3542 3543 3544 3545 3550 3551 3552 3555 3556 3557 3600 3601 3602 3603 3604 3606 3608 3609 3612	482205120224 4822117 10833 482205120102 4822117 10833 482205120473 482205120224 482205120224 482205120224 482205120224 482205120223 482205120102 482205120102 482205120102 482205120102 482205120102 482205120102 482205120102 482205120102 482205120102 482205120102 482205120101 482205120272 482205120772 482205120772 482205120102 482205120102 482205120102 482205120109 482205120008	RES., CHIP	220K00 5% 10K 1% 1K00 5% 10K 1% 47K00 1% 220K00 5% 68K00 5% 47K00 1% 220K00 5% 47K00 1% 1K00 5% 1K00 5% 1K00 5% 1K00 5% 470R005% 1K00 5%	0,1W 0,1W	3828 4100 4101 4401 4403 4404 4406 4412 4414 4702 4703 4800 5100 5500 5501 5600 5601 5800	482205120479 482205120008 482205120008 482205110008 482205110008 482205120008 482205120008 482205110008 482205110008 482205120008 482205120008 482205120008 482205120008 482205120008 482215771267 482215771267 482215771267 482215771267 482215771267 482215771267 482215771267 482215771267 482215771267 482215771267 482215771267 482215771267 482215771267	RES., CHIP	47R00 5% 0, 0R00 JUMP. (0805) 0R00 JUMP. (0805) 0R00 5% 0, 0R00 5% 0, 0R00 JUMP. (0805) 0R00 5% 0, 0R00 5% 0, 0R00 JUMP. (0805)	25W 25W 25W 25W
3539 3540 3541 3542 3543 3544 3545 3550 3551 3552 3555 3556 3557 3600 3601 3602 3603 3604 3606 3608 3609 3612	482205120224 4822117 10833 482205120102 4822117 10833 482205120473 482205120224 482205120224 482205120223 482205120223 482205120102 482205120102 482205120102 482205120102 482205120102 482205120102 482205120102 482205120102 482205120102 482205120102 482205120102 482205120102 482205120471 482205120272 48220512072 482205120102 482205120102 482205120102 482205120102	RES., CHIP	220K00 5% 10K 1% 1K00 5% 10K 1% 47K00 1% 220K00 5% 68K00 5% 47K00 1% 220K00 5% 47K00 1% 1K00 5% 1K00 5% 1K00 5% 1K00 5% 1K00 5% 470R005% 2K70 5% 1K00 5%	0,1W 0,1W	3828 4100 4101 4401 4403 4404 4406 4412 4414 4702 4703 4800 5101 5200 5501 5600 5601	482205120479 482205120008 482205120008 482205110008 482205110008 482205120008 482205120008 482205110008 482205110008 482205120008 482205120008 482205120008 482205120008 482205120008 482215771267 482215771267 482215771267 482215771267 482215771267 482215771267 482215771267 482215771267 482215771267 482215771267 482215771267 482215771267 482215771267	RES., CHIP	47R00 5% 0, 0R00 JUMP. (0805) 0R00 JUMP. (0805) 0R00 5% 0, 0R00 5% 0, 0R00 JUMP. (0805) 0R00 5% 0, 0R00 5% 0, 0R00 JUMP. (0805)	25W 25W 25W 25W
3539 3540 3541 3542 3543 3544 3545 3550 3551 3552 3555 3556 3557 3600 3601 3602 3603 3604 3606 3608 3609 3612 3613	482205120224 4822117 10833 482205120102 4822117 10833 482205120473 482205120224 482205120473 482205120224 482205120224 482205120223 482205120102 482205120102 482205120102 482205120101 482205120101 482205120101 482205120102 482205120101 482205120101 482205120272 482205120272 482205120772 482205120102 482205120102 482205120102 482205120102 482205120103 482205120104 482205120109 482205120109 482205120008 482205120008	RES., CHIP	220K00 5% 10K 1% 1K00 5% 10K 1% 47K00 1% 220K00 5% 68K00 5% 47K00 1% 220K00 5% 47K00 1% 1K00 5% 470R005% 1K00 5%	0,1W 0,1W	3828 4100 4101 4401 4403 4404 4406 4412 4703 4800 4801 COILS 5100 5500 5501 5600 5601 5800 DIOD	482205120479 482205120008 482205120008 482205110008 482205110008 482205120008 482205120008 482205110008 482205110008 482205120008 482205120008 482205120008 482205120008 482205120008 482215771267 482215771267 482215771267 482215771267 482215771267 482215771267 482215771267 482215771267 482215771267 482215771267 482215771267 482215771267 482215771267	RES., CHIP BLM31BG01SPT LQH4N 33U 10%	47R00 5% 0, 0R00 JUMP. (0805) 0R00 JUMP. (0805) 0R00 5% 0, 0R00 5% 0, 0R00 JUMP. (0805) 0R00 5% 0, 0R00 5% 0, 0R00 JUMP. (0805)	25W 25W 25W 25W
3539 3540 3541 3542 3543 3544 3545 3550 3551 3552 3556 3557 3600 3601 3602 3603 3604 3606 3608 3609 3612 3613 3615	482205120224 482211710833 482205120102 482211710833 482205120473 482205120224 482205120224 482205120224 482205120223 482205120223 482205120102 482205120102 482205120102 482205120101 482205120102 482205120101 482205120102 482205120101 482205120272 482205120272 482205120102 482205120102 482205120102 482205120101 482205120471 482205120102 482205120102 482205120102 482205120008 482205120008 482205120008	RES., CHIP	220K00 5% 10K 1% 1K00 5% 10K 1% 47K00 1% 220K00 5% 68K00 5% 47K00 1% 220K00 5% 47K00 1% 1K00 5%	0,1W 0,1W	3828 4100 4101 4401 4403 4404 4406 4412 4414 4702 4703 4800 5100 5101 5200 5501 5600 5601 5800 DIOD 6050	482205120479 482205120008 482205120008 482205110008 482205110008 482205120008 482205120008 482205110008 482205120008 482205120008 482205120008 482205120008 482205120008 482205120008 482205120008 482215771267 482215771267 482215771267 482215771267 482215771267 482215771267 482215771267 482215771267 482215771267 482215771267 482215771267 482215771267 482215771267 482215771267	RES., CHIP BLM31BG01SPT BLM31BG01SPT BLM31BG01SPT BLM31BG01SPT BLM31BG01SPT BLM31BG01SPT BLM31BG01SPT LQH4N 33U 10%	47R00 5% 0, 0R00 JUMP. (0805) 0R00 JUMP. (0805) 0R00 5% 0, 0R00 5% 0, 0R00 JUMP. (0805) 0R00 5% 0, 0R00 5% 0, 0R00 JUMP. (0805)	25W 25W 25W 25W
3539 3540 3541 3542 3543 3544 3545 3550 3551 3552 3556 3557 3600 3601 3602 3603 3604 3606 3608 3609 3612 3613 3615	482205120224 4822117 10833 482205120102 4822117 10833 482205120473 482205120224 482205120473 482205120224 482205120224 482205120223 482205120102 482205120102 482205120102 482205120101 482205120101 482205120101 482205120102 482205120101 482205120101 482205120272 482205120272 482205120772 482205120102 482205120102 482205120102 482205120102 482205120103 482205120104 482205120109 482205120109 482205120008 482205120008	RES., CHIP	220K00 5% 10K 1% 1K00 5% 10K 1% 47K00 1% 220K00 5% 68K00 5% 47K00 1% 220K00 5% 47K00 1% 1K00 5% 1K00 5% 1K00 5% 1K00 5% 1K00 5% 1K00 5% 470R005% 2K70 5% 1K00 5% 470R005% 1K00 5%	0,1W 0,1W	3828 4100 4101 4401 4403 4404 4406 4412 4414 4702 4703 4800 5100 5101 5200 5501 5600 5601 5800 DIOD 6050	482205120479 482205120008 482205120008 482205110008 482205110008 482205120008 482205120008 482205110008 482205110008 482205120008 482205120008 482205120008 482205120008 482205120008 482215771267 482215771267 482215771267 482215771267 482215771267 482215771267 482215771267 482215771267 482215771267 482215771267 482215771267 482215771267 482215771267	RES., CHIP	47R00 5% 0, 0R00 JUMP. (0805) 0R00 JUMP. (0805) 0R00 5% 0, 0R00 5% 0, 0R00 JUMP. (0805) 0R00 5% 0, 0R00 5% 0, 0R00 JUMP. (0805)	.25W .25W .25W .25W
3539 3540 3541 3542 3543 3544 3545 3550 3551 3552 3555 3556 3557 3600 3601 3602 3603 3604 3606 3608 3609 3612 3613 3615 3616	482205120224 482211710833 482205120102 482211710833 482205120473 482205120224 482205120224 482205120224 482205120223 482205120223 482205120102 482205120102 482205120102 482205120101 482205120102 482205120101 482205120102 482205120101 482205120272 482205120272 482205120102 482205120471 482205120102 482205120471 482205120109 482205120471 482205120008 482205120471 482205120008	RES., CHIP	220K00 5% 10K 1% 1K00 5% 10K 1% 47K00 1% 220K00 5% 68K00 5% 47K00 1% 220K00 5% 47K00 1% 1K00 5% 1K00 5% 1K00 5% 1K00 5% 1K00 5% 1K00 5% 470R005% 2K70 5% 1K00 5% 470R005% 1K00 5%	0,1W 0,1W	3828 4100 4101 4401 4403 4404 4406 4412 4414 4702 4703 4800 5101 5200 5501 5500 5601 5600 5601 5800 DIOD 6050 6051	482205120479 482205120008 482205120008 482205110008 482205110008 482205120008 482205120008 482205110008 482205120008 482205120008 482205120008 482205120008 482205120008 482205120008 482205120008 482215771267 482215771267 482215771267 482215771267 482215771267 482215771267 482215771267 482215771267 482215771267 482215771267 482215771267 482215771267 482215771267 482215771267	RES., CHIP BLM31BG01SPT BLM31BG01SPT BLM31BG01SPT BLM31BG01SPT BLM31BG01SPT BLM31BG01SPT BLM31BG01SPT LQH4N 33U 10%	47R00 5% 0, 0R00 JUMP. (0805) 0R00 JUMP. (0805) 0R00 5% 0, 0R00 5% 0, 0R00 JUMP. (0805) 0R00 5% 0, 0R00 5% 0, 0R00 JUMP. (0805)	.25W .25W .25W .25W
3539 3540 3541 3542 3543 3544 3545 3550 3551 3552 3556 3557 3600 3601 3602 3603 3604 3606 3608 3609 3612 3613 3615 3616 3617	482205120224 4822117 10833 482205120102 4822117 10833 482205120473 482205120224 482205120224 482205120224 482205120223 482205120102 482205120102 482205120102 482205120102 482205120101 482205120101 482205120101 482205120102 482205120101 482205120101 482205120101 482205120101 482205120101 482205120101 482205120101 482205120101 482205120101 482205120471 482205120471 482205120471 482205120008 482205120471 482205120471 482205120272 482205120008 482205120272 482205120272	RES., CHIP	220K00 5% 10K 1% 1K00 5% 10K 1% 47K00 1% 220K00 5% 68K00 5% 47K00 1% 220K00 5% 47K00 1% 1K00 5% 1K00 5% 1K00 5% 1K00 5% 1K00 5% 470R005% 1K00 5%	0,1W 0,1W	3828 4100 4101 4401 4403 4404 4406 4412 4414 4702 4703 4800 5500 5500 5501 5600 5601 5800 DIOD 6050 6051 6052	482205120479 482205120008 482205120008 482205110008 482205110008 482205120008 482205120008 482205120008 482205110008 482205120008 482205120008 482205120008 482205120008 482205120008 482205120008 482205120008 482215771267	RES., CHIP	47R00 5% 0, 0R00 JUMP. (0805) 0R00 JUMP. (0805) 0R00 5% 0, 0R00 5% 0, 0R00 JUMP. (0805) 0R00 5% 0, 0R00 5% 0, 0R00 JUMP. (0805)	.25W .25W .25W .25W
3539 3540 3541 3542 3543 3544 3545 3550 3551 3552 3553 3555 3556 3557 3600 3601 3602 3603 3604 3606 3608 3609 3612 3613 3615 3616 3617 3618	482205120224 4822117 10833 482205120102 4822117 10833 482205120473 482205120224 482205120224 482205120223 482205120223 482205120102 482205120102 482205120102 482205120102 482205120101 482205120101 482205120102 482205120101 482205120101 482205120101 482205120101 482205120101 482205120101 482205120471 48220512072 482205120471 482205120008 482205120008 482205120072 482205120272 482205120272 482205120272 482205120008 482205120072 482205120072 482205120272 482205120272 482205120272 482205120272 482205120272 482205120272 482205120272 482205120272	RES., CHIP	220K00 5% 10K 1% 1K00 5% 10K 1% 47K00 1% 220K00 5% 68K00 5% 47K00 1% 220K00 5% 47K00 1% 1K00 5% 1K00 5% 1K00 5% 1K00 5% 1K00 5% 470R005% 1K00 5% 1K00 5% 1K00 5% 470R005% 1K00 5% 1K00	0,1W 0,1W	3828 4100 4101 4401 4403 4404 4406 4412 4703 4800 4801 5100 5500 5501 5500 5501 5600 5601 5800 DIOD 6050 6051 6052 6200	482205120479 482205120008 482205120008 482205110008 482205110008 482205120008 482205120008 482205120008 482205110008 482205120008 482205120008 482205120008 482205120008 482205120008 482205120008 482205120008 482215771267 532213034337	RES., CHIP	47R00 5% 0, 0R00 JUMP. (0805) 0R00 JUMP. (0805) 0R00 5% 0, 0R00 5% 0, 0R00 JUMP. (0805) 0R00 JUMP. (0805) 0R00 5% 0, 0R00 JUMP. (0805)	.25W .25W .25W .25W
3539 3540 3541 3542 3543 3544 3545 3550 3551 3552 3553 3555 3556 3557 3600 3601 3602 3603 3604 3606 3608 3609 3612 3613 3615 3616 3617 3618	482205120224 4822117 10833 482205120102 4822117 10833 482205120473 482205120224 482205120224 482205120224 482205120223 482205120102 482205120102 482205120102 482205120102 482205120101 482205120101 482205120101 482205120102 482205120101 482205120101 482205120101 482205120101 482205120101 482205120101 482205120101 482205120101 482205120101 482205120471 482205120471 482205120471 482205120008 482205120471 482205120471 482205120272 482205120008 482205120272 482205120272	RES., CHIP	220K00 5% 10K 1% 1K00 5% 10K 1% 47K00 1% 220K00 5% 68K00 5% 47K00 1% 220K00 5% 47K00 1% 1K00 5% 1K00 5% 1K00 5% 1K00 5% 1K00 5% 470R005% 1K00 5%	0,1W 0,1W	3828 4100 4101 4401 4403 4404 4406 4412 4414 4702 4703 4800 5500 5500 5501 5600 5601 5800 DIOD 6050 6051 6052	482205120479 482205120008 482205120008 482205110008 482205110008 482205120008 482205120008 482205120008 482205110008 482205120008 482205120008 482205120008 482205120008 482205120008 482205120008 482205120008 482215771267	RES., CHIP	47R00 5% 0, 0R00 JUMP. (0805) 0R00 JUMP. (0805) 0R00 5% 0, 0R00 5% 0, 0R00 JUMP. (0805) 0R00 5% 0, 0R00 5% 0, 0R00 JUMP. (0805)	25W 25W 25W 25W
3539 3540 3541 3542 3543 3544 3545 3550 3551 3552 3553 3555 3556 3557 3600 3601 3602 3603 3604 3606 3608 3609 3612 3613 3615 3616 3617 3618	482205120224 4822117 10833 482205120102 4822117 10833 482205120473 482205120224 482205120224 482205120224 482205120223 482205120102 482205120102 482205120102 482205120102 482205120102 48220512010102 482205120102 482205120101 482205120102 482205120101 482205120101 482205120101 482205120101 482205120101 482205120471 482205120471 482205120471 482205120471 482205120008 482205120471 482205120272 482205120471 482205120272 482205120471 482205120272 482205120471 482205120473 482205120473 482205120473	RES., CHIP	220K00 5% 10K 1% 1K00 5% 10K 1% 47K00 1% 220K00 5% 68K00 5% 47K00 1% 220K00 5% 47K00 1% 1K00 5% 1K00 5	0,1W 0,1W	3828 4100 4101 4401 4403 4404 4406 4412 4703 4800 4801 5100 5500 5501 5500 5501 5600 5601 5800 DIOD 6050 6051 6052 6200 6201	482205120479 482205120008 482205120008 482205110008 482205110008 482205120008 482205120008 482205120008 482205120008 482205120008 482205120008 482205120008 482205120008 482205120008 482205120008 482205120008 482215771267 482215771267 482215771267 482215771267 482215771267 482215771267 482215771267 482215771267 482215771267 482215771267 482215771267 482215771267 482215771267 482215771267 482215771267 482215771267 482215771267 532213034337 532213034337 532213034337	RES., CHIP	47R00 5% 0, 0R00 JUMP. (0805) 0R00 JUMP. (0805) 0R00 5% 0, 0R00 5% 0, 0R00 JUMP. (0805) 0R00 5% 0, 0R00 5% 0, 0R00 JUMP. (0805)	.25W .25W .25W .25W
3539 3540 3541 3542 3543 3544 3545 3550 3551 3552 3553 3555 3556 3557 3600 3601 3602 3603 3604 3606 3608 3609 3612 3613 3615 3616 3617 3618 3619 3620	482205120224 4822117 10833 482205120102 4822117 10833 482205120473 482205120224 482205120224 482205120223 482205120223 482205120102 482205120102 482205120102 482205120102 482205120101 482205120101 482205120101 482205120101 482205120101 482205120101 482205120101 482205120101 482205120101 482205120101 482205120471 482205120471 482205120471 482205120471 482205120008 482205120471 482205120272 482205120471 482205120272 482205120473 482205120473 482205120473 482205120473	RES., CHIP	220K00 5% 10K 1% 1K00 5% 10K 1% 47K00 1% 220K00 5% 68K00 5% 47K00 1% 220K00 5% 47K00 1% 1K00 5% 470R005% 1K00 5% 1K00 5% 470R005% 1K00 5% 1K00	0,1W 0,1W	3828 4100 4101 4401 4403 4404 4406 4412 4703 4800 4801 5100 5500 5501 5600 5501 5600 5601 5800 DIOD 6050 6051 6052 6200 6201 6300	482205120479 482205120008 482205120008 482205110008 482205110008 482205120008 482205120008 482205120008 482205120008 482205120008 482205120008 482205120008 482205120008 482205120008 482205120008 482205120008 482215771267	RES., CHIP	47R00 5% 0, 0R00 JUMP. (0805) 0R00 JUMP. (0805) 0R00 5% 0, 0R00 5% 0, 0R00 JUMP. (0805) 0R00 5% 0, 0R00 5% 0, 0R00 JUMP. (0805)	.25W .25W .25W .25W
3539 3540 3541 3542 3543 3544 3545 3550 3551 3552 3553 3555 3556 3557 3600 3601 3602 3603 3604 3606 3608 3609 3612 3613 3615 3616 3617 3618	482205120224 4822117 10833 482205120102 4822117 10833 482205120473 482205120224 482205120224 482205120223 482205120223 482205120102 482205120102 482205120102 482205120102 482205120101 482205120101 482205120101 482205120101 482205120101 482205120101 482205120101 482205120101 482205120101 482205120101 482205120471 482205120471 482205120471 482205120471 482205120008 482205120471 482205120272 482205120471 482205120272 482205120473 482205120473 482205120473 482205120473	RES., CHIP	220K00 5% 10K 1% 1K00 5% 10K 1% 47K00 1% 220K00 5% 68K00 5% 47K00 1% 220K00 5% 47K00 1% 1K00 5% 1K00 5	0,1W 0,1W	3828 4100 4101 4401 4403 4404 4406 4412 4703 4800 4801 5100 5500 5501 5500 5501 5600 5601 5800 DIOD 6050 6051 6052 6200 6201	482205120479 482205120008 482205120008 482205110008 482205110008 482205120008 482205120008 482205120008 482205120008 482205120008 482205120008 482205120008 482205120008 482205120008 482205120008 482205120008 482215771267 482215771267 482215771267 482215771267 482215771267 482215771267 482215771267 482215771267 482215771267 482215771267 482215771267 482215771267 482215771267 482215771267 482215771267 482215771267 482215771267 532213034337 532213034337 532213034337	RES., CHIP	47R00 5% 0, 0R00 JUMP. (0805) 0R00 JUMP. (0805) 0R00 5% 0, 0R00 5% 0, 0R00 JUMP. (0805) 0R00 5% 0, 0R00 5% 0, 0R00 JUMP. (0805)	25W 25W 25W 25W
3539 3540 3541 3542 3543 3544 3545 3550 3551 3552 3553 3555 3556 3557 3600 3601 3602 3603 3604 3606 3608 3609 3612 3613 3615 3616 3617 3618 3619 3620 3621	482205120224 4822117 10833 482205120102 4822117 10833 482205120473 482205120224 482205120224 482205120223 482205120223 482205120102 482205120102 482205120102 482205120102 482205120101 482205120101 482205120101 482205120101 482205120101 482205120101 482205120101 482205120101 482205120101 482205120101 482205120101 482205120272 482205120102 482205120471 482205120008 482205120471 482205120272 482205120471 482205120272 482205120473 482205120473 482205120473 482205120473 482205120473 482205120473	RES., CHIP	220K00 5% 10K 1% 1K00 5% 10K 1% 47K00 1% 220K00 5% 68K00 5% 47K00 1% 220K00 5% 47K00 1% 1K00 5% 470R005% 1K00 5%	0,1W 0,1W	3828 4100 4101 4401 4403 4404 4406 4412 4703 4800 4801 5100 5500 5501 5600 5501 5600 5601 5800 DIOD 6050 6201 6300 6500	482205120479 482205120008 482205120008 482205110008 482205110008 482205120008 482205120008 482205120008 482205110008 482205120008 482205120008 482205120008 482205120008 482205120008 482205120008 482205120008 482215771267	RES., CHIP	47R00 5% 0, 0R00 JUMP. (0805) 0R00 JUMP. (0805) 0R00 5% 0, 0R00 5% 0, 0R00 JUMP. (0805) 0R00 5% 0, 0R00 5% 0, 0R00 JUMP. (0805)	25W 25W ,25W ,25W
3539 3540 3541 3542 3543 3544 3545 3550 3551 3552 3553 3555 3556 3557 3600 3601 3602 3603 3604 3608 3609 3612 3613 3615 3616 3617 3618 3619 3620 3621 3622	482205120224 4822117 10833 482205120102 4822117 10833 482205120473 482205120224 482205120224 482205120224 482205120223 482205120102 482205120102 482205120102 482205120102 482205120102 482205120102 482205120101 482205120101 482205120101 482205120101 482205120101 482205120101 482205120102 482205120101 482205120272 482205120102 482205120272 482205120102 482205120102 482205120103 48220512010471 482205120008 482205120471 482205120473 482205120473 482205120473 482205120473 482205120473 482205120473	RES., CHIP	220K00 5% 10K 1% 1K00 5% 10K 1% 47K00 1% 220K00 5% 68K00 5% 47K00 1% 220K00 5% 47K00 1% 1K00 5% 1K00 5% 1K00 5% 1K00 5% 1COR005% 1K00 5% 1K00 5% 1K00 5% 1K00 5% 470R005% 1K00 5% 1K00 5% 470R005% 1K00 5% 470R005% 1K00 5% 470R005% 1K00 5% 470R005% 1K00 5% 47K00 1% 47K00 1% 47K00 1% 47K00 1% 100K005% 47K00 1%	0,1W 0,1W	3828 4100 4101 4401 4403 4404 4406 4412 4703 4800 4801 5100 5500 5501 5500 5601 5600 5601 6052 6200 6201 6300 6501	482205120479 482205120008 482205120008 482205110008 482205110008 482205120008 482205120008 482205120008 482205110008 482205120008 482205120008 482205120008 482205120008 482205120008 482205120008 482205120008 482215771267	RES., CHIP	47R00 5% 0, 0R00 JUMP. (0805) 0R00 JUMP. (0805) 0R00 5% 0, 0R00 5% 0, 0R00 JUMP. (0805) 0R00 5% 0, 0R00 5% 0, 0R00 JUMP. (0805)	25W 25W ,25W ,25W
3539 3540 3541 3542 3543 3544 3545 3550 3551 3552 3553 3555 3556 3557 3600 3601 3602 3603 3604 3608 3609 3612 3613 3615 3616 3617 3618 3619 3620 3621 3622 3700	482205120224 4822117 10833 482205120102 4822117 10833 482205120473 482205120224 482205120224 482205120223 482205120223 482205120102 482205120102 482205120102 482205120102 482205120102 482205120101 482205120101 482205120101 482205120101 482205120101 482205120101 482205120101 482205120101 482205120102 482205120101 482205120272 482205120102 482205120102 482205120103 482205120103 482205120103 482205120103 482205120471 482205120272 482205120473 482205120473 482205120473 482205120473 482205120473 482205120473 482205120473 482205120473 482205120473 482205120473 482205120473	RES., CHIP	220K00 5% 10K 1% 1K00 5% 10K 1% 47K00 1% 220K00 5% 68K00 5% 47K00 1% 220K00 5% 47K00 1% 1K00 5% 470R005% 1K00 5% 470R005% 1K00 5% 470R005% 1K00 5% 470R005% 1K00 5% 47K00 1% 47K00 1% 47K00 1% 47K00 1% 47K00 1% 8K20 5%	0,1W 0,1W	3828 4100 4101 4401 4403 4404 4406 4412 4703 4800 4801 5100 5500 5501 5600 5601 5605 6050 6051 6052 6200 6201 6300 6501 6504	482205120479 482205120008 482205120008 482205110008 482205110008 482205120008 482205120008 482205120008 482205110008 482205120008 482205120008 482205120008 482205120008 482205120008 482205120008 482205120008 482215771267	RES., CHIP	47R00 5% 0, 0R00 JUMP. (0805) 0R00 JUMP. (0805) 0R00 5% 0, 0R00 5% 0, 0R00 JUMP. (0805) 0R00 5% 0, 0R00 5% 0, 0R00 JUMP. (0805)	25W 25W ,25W ,25W
3539 3540 3541 3542 3543 3544 3545 3550 3551 3552 3553 3555 3556 3557 3600 3601 3602 3603 3604 3608 3609 3612 3613 3615 3616 3617 3618 3619 3620 3621 3622	482205120224 4822117 10833 482205120102 4822117 10833 482205120473 482205120224 482205120224 482205120223 482205120223 482205120102 482205120102 482205120102 482205120102 482205120102 482205120101 482205120101 482205120101 482205120101 482205120101 482205120101 482205120101 482205120101 482205120102 482205120101 482205120272 482205120102 482205120102 482205120103 482205120103 482205120103 482205120103 482205120471 482205120272 482205120473 482205120473 482205120473 482205120473 482205120473 482205120473 482205120473 482205120473 482205120473 482205120473 482205120473	RES., CHIP	220K00 5% 10K 1% 1K00 5% 10K 1% 47K00 1% 220K00 5% 68K00 5% 47K00 1% 220K00 5% 47K00 1% 1K00 5% 1K00 5% 1K00 5% 1K00 5% 1COR005% 1K00 5% 1K00 5% 1K00 5% 1K00 5% 470R005% 1K00 5% 1K00 5% 470R005% 1K00 5% 470R005% 1K00 5% 470R005% 1K00 5% 470R005% 1K00 5% 47K00 1% 47K00 1% 47K00 1% 47K00 1% 100K005% 47K00 1%	0,1W 0,1W	3828 4100 4101 4401 4403 4404 4406 4412 4703 4800 4801 5100 5500 5501 5600 5601 5605 6050 6051 6052 6200 6201 6300 6501 6504	482205120479 482205120008 482205120008 482205110008 482205110008 482205120008 482205120008 482205120008 482205110008 482205120008 482205120008 482205120008 482205120008 482205120008 482205120008 482205120008 482215771267	RES., CHIP	47R00 5% 0, 0R00 JUMP. (0805) 0R00 JUMP. (0805) 0R00 5% 0, 0R00 5% 0, 0R00 JUMP. (0805) 0R00 5% 0, 0R00 5% 0, 0R00 JUMP. (0805)	25W 25W ,25W ,25W
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6509 6510 6511 6512 6514 6516	532213034331 532213030691 482213010185	BAV70 BAV70 BAV70 BAW56 UDZ5.6B 1SR154-400	
	482213011013 482213083757	UDZ16B BAS216 BAS216	
6700	532213034337 482213083757	BAV99 BAS216 BAW56	
TRAN	SISTORS AND IC	'e	
	482213060511	TRANS., CHIP	BC847B
	482213060511	TRANS., CHIP	BC847B
7053	532213060508	TRANS., CHIP	BC857B
	482213042132	TRANS., CHIP	BC807
	482213060511	TRANS., CHIP	BC847B
	482213042132 532213060508	TRANS., CHIP	BC807 BC857B
7057 7100	482213042131	TRANS., CHIP	BF550
	482213060511	TRANS., CHIP	BC847B
	482213060511	TRANS., CHIP	BC847B
7152		IC ANA.	HA12161FP
7153	482213060511	TRANS., CHIP	BC847B
	482213060511	TRANS., CHIP	BC847B
	482220915823	IC ANA AMP.	TL074ID
	482220915824	IC ANA.	TDA7331
7251		TRANS., CHIP MOS INTERF.	BC847B TDA7342
	482220912723 482213060511	TRANS., CHIP	BC847B
	482220933629	IC ANA.	TDA7375
7402	482220933629	IC ANA.	TDA7375
7500	482213060511	TRANS., CHIP	BC847B
7501	482213060511	TRANS., CHIP	BC847B
7503	482213060511	TRANS., CHIP	BC847B
7504	482213060511	TRANS., CHIP	BC847B
	482213011015	IC ANA REGUL. IC DIG MOS	BSP350 74HC14D
7506 7507	532220911548 482213060511	TRANS., CHIP	BC847B
7508		TRANS., CHIP	BC857B
7512	482220915826	IC ANA.	L9820D
7513	482220933029	IC ANA.	TDA3602/N3
7515	532220914877	IC DIG MOS	HEF4528BT
7516	532213060508	TRANS., CHIP	BC857B
7600	482220915931	IC DIG MOS	P87CE560EFB/00+C43
7601	482220915827	IC DIG MOS	ST24C16M6 BC857B
7602	532213060508	TRANS., CHIP TRANS., CHIP	BC847B
7700 7701	482213060511 482213060511	TRANS., CHIP	BC847B
7706	482213060511	TRANS., CHIP	BC847B
7710	482220915349	IC ANA AMP.	TEA0676T/V1
7800	482213060511	TRANS., CHIP	BC847B
7801	482213060511	TRANS., CHIP	BC847B
7803	482220915825	IC ANA.	E100.20B
7805	532213060508	TRANS., CHIP	BC857B

ELEC	TRICAL PARTS F	RONT PWB		
1000	482226710644	CONNECTOR FRO	ONT 23P	
1001	532229061156	CONNECTOR INC	R. 5P	
2100	482212614165	CAP., CER. SMD	100NF 10%	25V
2101	482212614165	CAP., CER. SMD	100NF 10%	25V
2102	482212614165	CAP., CER. SMD	100NF 10%	25V
2103	482212614165	CAP., CER. SMD	100NF 10%	25V
2104	482212614165	CAP., CER. SMD	100NF 10%	25V
2105	532212232531	CAP., CER. SMD	100PF 5%	50V
2106	482212614165	CAP., CER. SMD	100NF 10%	25V
2107	482212614165	CAP., CER. SMD	100NF 10%	25V
3100	482205120332	RES., CHIP	3K30 5%	0,1W
3101	482205120272	RES., CHIP	2K70 5%	0,1W
3102	482205120561	RES., CHIP	560R005%	0,1W
3103	482205120272	RES., CHIP	2K70 5%	0,1W
3104	482205120332	RES., CHIP	3K30 5%	0,1W
3105	482211711449	RES., CARBON	2K2 1%	0,1W
3106	4822117 10353	RES., CHIP	150R 1%	0,1W
3107	482205120334	RES., CHIP	330K005%	0,1W
3108	482211630423	RES., CHIP	10K 20%	NTC
3109	482205120272	RES., CHIP	2K70 5%	0,1W
3110	482205120272	RES., CHIP	2K70 5%	0,1W
3111	4822117 10833	RES., CHIP	10K 1%	0,1W
3210	482205110681	RES., CHIP	680R002%	0,25W
3212	482205110102	RES., CHIP	1K00 2%	0,25W
3214	482205110102	RES., CHIP	1K00 2%	0,2 5W
3216	482205110471	RES., CHIP	470R002%	0,25W
3222	482205110271	RES., CHIP	270R002%	0,25W
3223	482205110122	RES., CHIP	1K20 2%	0,25W
3225	482205110681	RES., CHIP	680R002%	0,25W
3230	482205110152	RES., CHIP	1K50 2%	0,25W
6101	482213010877	DIODE, REF.	UDZ9.1B	
7100	532220931185	IC DIG MOS	PCF8578T LCD	SMD
7101	532220931186	IC DIG MOS	PCF8579T LCD	SMD

ELECTRICAL PARTS PULSE SWITCH ASSY

	482221412479	PULSE-SWITCH ASSY COMPLETE
1001	482232012086	FOIL FLEX 5-FOLD
1005	482210130873	INCREMENT SWITCH

Car cassette deck SCA

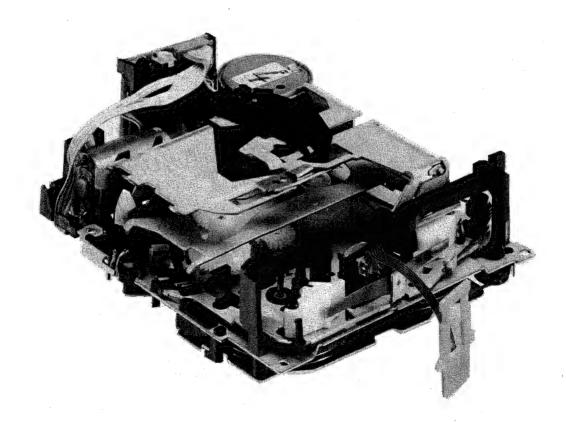
Version 4.4





Service Manual

12 V —



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4822 725 23509

MECHANICAL SPECIFICATION

Operating positions:

Any position from horizontal to 45° standing vertically on the rear side.

Operating temperature:

-20°C to +70°C

Tape speed:

4,76 cm/sec

Wow and flutter:

< 0,5% unweighted

< 0,3% weighted

Winding time:

Test tape: RCA 118 (C60) < 110 sec Eject and loading time: < 2 sec

< 2 500

ELECTRICAL SPECIFICATION

Voltage:

min 10,6 V max 16,0 V

Current - playback:

200 mA

Current - fast wind:

150 mA

Current - eject, standby:

100 μA

ιοο μι

Hold in voltage:

8,0 V

Capstan motor:

14,4 V 2 V DC Play

Servo motor:

11,5 V DC Fast, Servo

- 11

Playback Crosstalk

ch. 1 - 2 / 3 - 4

> 36 dB

ch. 2 - 3

 $>46 \, dB$

FEATURES

The SCA-4.4 tape deck is usable in several sets. Most of the control functions depend on the hard- and software-configuration of the set in which the deck is installed.

The set μC can control soft eject, emergency eject, standby mode, reverse function, MSS, ME/FE and DOLBY indication.

Some versions of the deck could be equipped with a groved head and/or a preamplifier circuit.

HANDLING AND DEMOUNTING INSTRUCTIONS

GENERAL

- Protect the tape deck against ESD!
- Plastic catches and snap connections must be released careful with screwdriver or tweezers.
- Cables must be laid in the defined cable guidings after mounting.
- For lubrication see indications in the exploded view.
- To clean tape transport and head only use moist cleaning tapes or piece of cloth, take care that no fluid (alcohol) drops into the bearing.
- For transport lift/carrier assy must be in eject position, do not carry the deck by touching the lift/carrier.
- Use a screwdriver 2,5 mm with insulated shaft for adjusting drift.
- Screw the deck into the set in order: Front right, front left, rear left, rear right.

SCA-4.4

PCS68 083

2

DEMOUNTING

- 1. Carrier/lift (44)
- 1.1 Lift in eject position put leg of eject spring (12) into mounting position acc. fig. 8 and fig. 2 J
- 1.2 Lift in play position unclamp cassette holder (49) from eject lever (48) with a left-upwards motion acc. fig.1-B
- 1.3 Lift in eject position push plastic hook (fig.1-D) and pull out eject lever, remember position of ejector spring (55) and switching pin (54) for re-assembly later on
- 1.4 Release fixation lever (fig.1-F) by clicking out in left direction and then turn to the right
- 1.5 Lift in mid position take out carrier and lift by releasing plastic hooks at the left (fig.1-G)
- 2. Head support
- 2.1 Take out carrier/lift according 1.
- 2.2 Remove head carrier spring (37)
- 2.3 Turn head support fixation lever acc. fig.3-A
- 2.4 Position pin of switching lever (20) to max. left point, see fig.3-detail I
- 2.5 Release plastic snapper (fig.3-H) and take out head support assembly !!! TAKE CARE NOT TO BENT THE HEAD CARRIER !!!
- 2.6 Press plastic fixation (fig.3-detail E,F) and take out magnetic head
- 2.7 Push pressure spring (27) acc. fig.3-D and move it out
- 2.8 Release plastic hooks (fig.3-B,C) to pull pinch rollers (45+68) out
- 2.9 Take off anchor spring (13), rotate anchor (2) 90°degrees to take it out (fig.4-A,B,C)
- 3. Capstan motor (32)

Remove belt (30) from driving wheel, desolder connection cables, unscrew the two torx screws at the bottom of chassis and take out capstan motor

!!! TAKE CARE OF CORRECT AND UNTWISTED MOUNTING OF THE BELT !!!

4. Servo motor (14)

Desolder connection cables and lever up motor out of its clamps (fig.2-F,G)

- 5. Clutch assy (57-59)
- 5.1 Remove servo motor acc. 4.
- 5.2 Cut disk (65) and remove it (must be renewed)
- 5.3 Pull clutch from the axle (fig.2-H,I)
- 6. Anchor holder (8) and magnet double (1)
- 6.1 Desolder cables of magnet
- 6.2 Swivel anchor holder counter-clockwise and press it off applying force near the pivoting point
- 6.3 Release plastic clamps of magnet holder and press magnet out from top of the chassis (fig.4-E)
- 7. Driving belt (30), flywheels (23) and bearings (70)
- 7.1 Release pivot plate (35) by turning the plastic hooks acc.fig.5-A,B
- 7.2 Remove pivot plate and driving belt
- 7.3 Pull out flywheels
- 7.4 Press bearings out of plastic housings from top side of chassis plate, use a plastic tool with diameter 4mm in order not to damage the housings
- 7.5 After mounting new flywheels, bearings or pivot plate you have to test wow and flutter because every deck is adjusted individual for these components. If the values of wow and flutter are out of specification, you have to exchange complete deck!
- 7.6 Degrease capstan axis after re-mounting the flywheels
- 8. Connection wheel (5), take up wheels (6), backtension springs (69)
- 8.1 Take out carrier/lift acc. 1.
- 8.2 Lever up connection wheel from axle (must be renewed)
- 8.3 Cut disks (65) and remove them (must be renewed)
- 8.4 Unclamp and pull up wheels with puller (fig.2-A,B)
- 8.5 Take out backtension springs
- 9. ME/CR Switch (60).
- 9.1 Desolder connection cables
- 9.2 Push with a small pin through the hole at the bottom of the chassis, directly under the switch

10.1 10.2	Desolder connection cables Lever up switch or push with a small pin through the hole at the bottom of the chassis, directly under the switch if servo motor and clutch were removed previously	Э
11. 11.1 11.2 11.3 11.4 11.5	Control pins (16), gear lever (17), play reverse lever (18) Remove flywheels acc. 7 Remove play reverse lever Put control pins into mounting position acc. fig.6-D,E Take out gear lever Pull out control pins	
12. 12.1 12.2 12.3 12.4 12.5	Switching lever (20), swivel wheel assembly (7,15,43) Release spring (53) from black plastic pin Turn switching lever acc. fig.7-A Lever up switching lever from axle Remove connection wheel acc. 8 Take out swivel wheel assembly	
13. 13.1 13.2 13.3	Switching pin (54), transport rod (25), latch (21) Remove ON/OFF Switch acc. 10 Lever up switching pin from axle Remove switching lever acc. 12	

ON/OFF Switch (26)

TOOLS REQUIRED

13.4

10.

Test cassette SBC 420	4822 397 30071
Test cassette SBC 419	4822 397 30069
Friction test cassette	4822 395 30054
Puller for clutch (fig.2)	4822 395 60039

Move out transport rod and latch

ADJUSTMENTS

TORQUE OF REELS (FRICTION)

Adjust potmeter pos. 3409 until friction test cassette shows 9,5 +/- 1,5 mNm in NOR direction (after 2 minutes) and 8,5 +/- 1,5 mNm in REV direction. Backtension must be 0,3 to 0,7 mNm.

If values deviate check lubrication, clutch, take up wheels and backtension springs.

WOW AND FLUTTER, TAPE SPEED

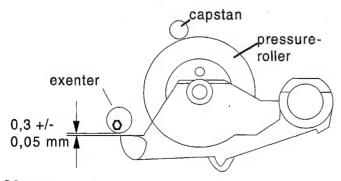
Connect wow and flutter meter to loudspeaker outputs and play the 3150 Hz signal track of test cassette SBC 420. Value should be max. 0,5% (unweighted).

If value deviates check motors, pressure rollers, flywheels, belt, pulley and backtension springs.

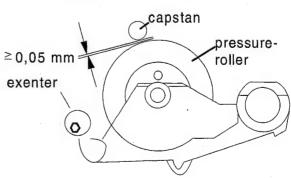
Tape speed can be adjusted with motor potentiometer A (see fig.8). Use a screwdriver with insulated shaft!

PRESSURE ROLLER / CAPSTAN (see figures below)

Adjust clearance play-NOR position between pressure roller and stop head carrier

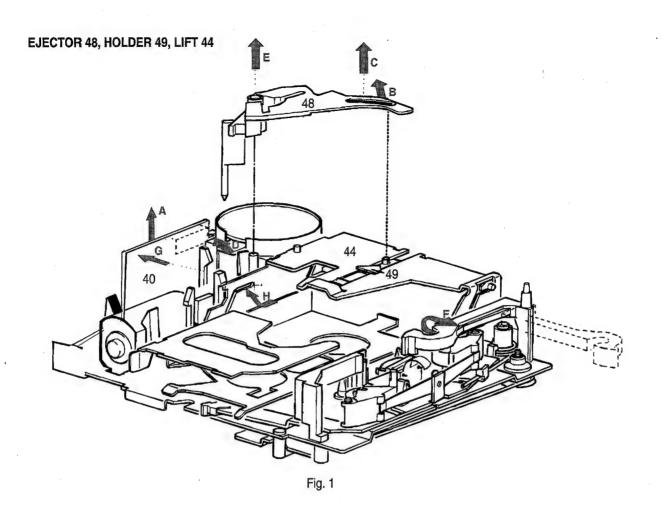


Adjust clearance FFW position between pressure roller and capstan



SCA-4.4

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CLUTCH 59, SWITCH 60, GEAR WHEEL 5, CARRIER 6

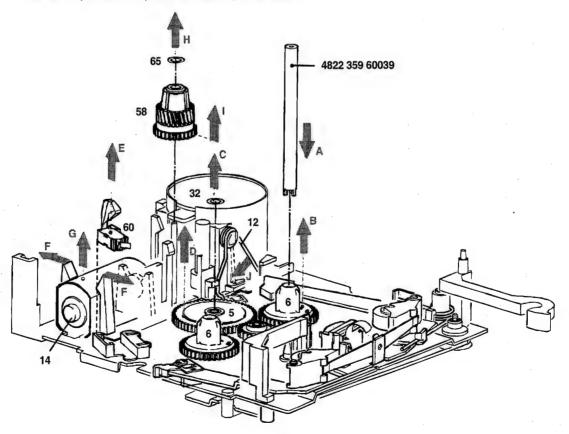
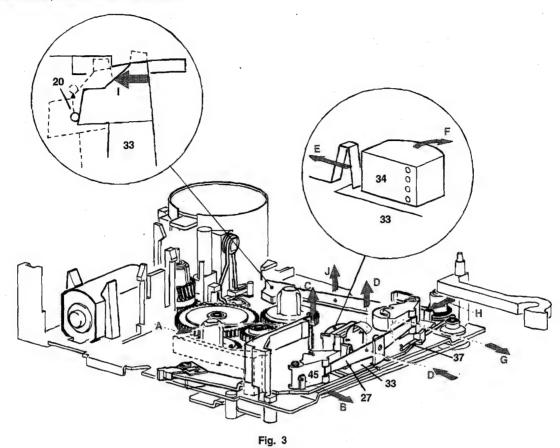
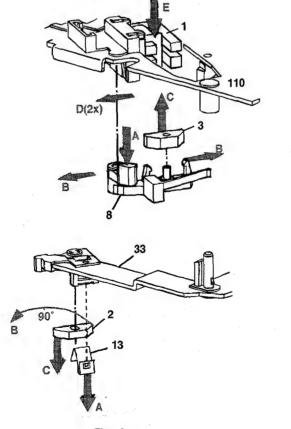


Fig. 2

PRESSURE ROLLER 45, HEAD BRACKET 33, HEAD 34



ANCHOR 3/5, RELAY 1



FLYWHEEL 23, BELT 30

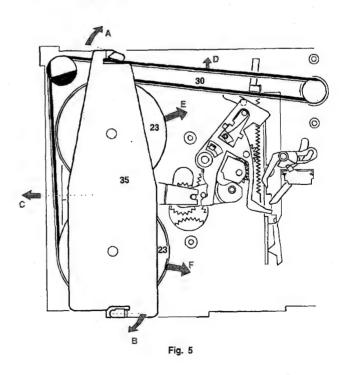


Fig. 4

SEGMENT 16, BRACKET 17, BEARING 70

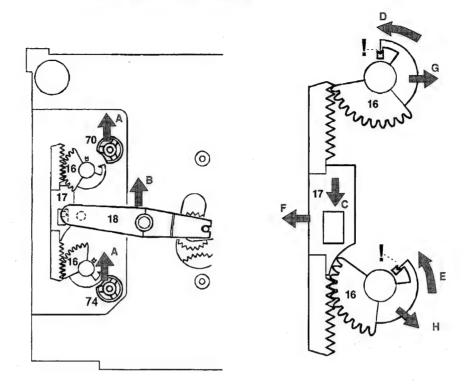


Fig. 6

SWITCH 26, SWIVEL GEAR 7, LEVER 20

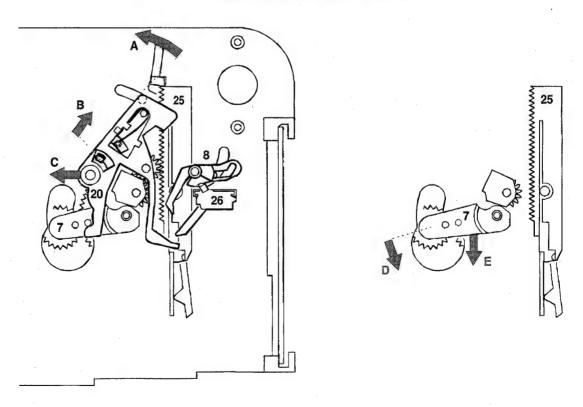
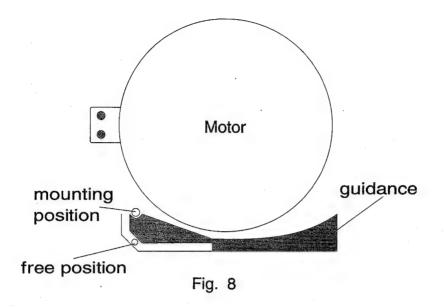
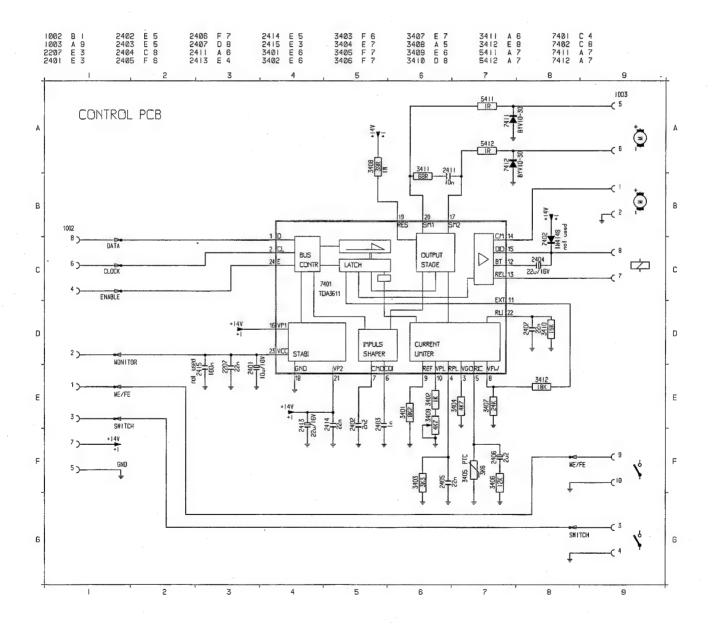


Fig. 7





MEASUREMENTS ON CONTROL PCB

ME/FE: 0,0 V (FE) / 5,0 V (ME/CR) ON/OFF: 0,0 V (ON) / 5,0 V (OFF)

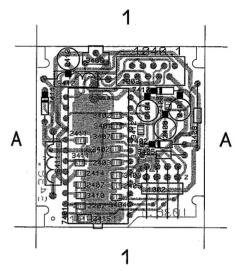
Pos. 7401 TDA 3611

- 1: 5,0 V
- 2: 5,0 V
- 3: 0,7 V / 0,0 V (Sb)
- 4: 0,8 V (PN) / 0,9 V (PR) / 0,3 V (W) / 0,0 V (Sb)
- 5: 0,8 V (PN) / 1,0 V (PR) / 0,4 V (W) / 0,0 V (Sb) / 0,1 V (TA)
- 6: 0,8 V (PN) / 1,0 V (PR) / 0,4 V (W) / 0,0 V (Sb) / 0,1 V (TA)
- 7: 0,7 V (P) / 1,8 V (W) / 0,0 V (Sb) / 0,6 V (TA)
- 8: 3,4 V / 0,0 V (Sb)
- 9: 1,2 V / 0,0 V (Sb)
- 10: 0,5 V / 0,0 V (Sb)
- 11: 3,4 V / 0,0 V (Sb)
- 12: 12.0 V
- 13: 0,5 V / 12,0 V (Sb)
- 14: 0,0 V / 11,5 V (P)
- 15: 11,5 V / 12,0 V (Sb)
- 16: 12.0 V
- 17: 0,1 V (PN) / 2,4 V (PR) / 0,0 V (WN) / 12,0 V (WR) / 0,0 V (Sb)
- 18: GND
- 19: 12,0 V / 8,5 V (P)
- 20: 2,4 V (PN) / 0,1 V (PR) / 12,0 V (WN) / 0,0 V (WR) / 0,0 V (Sb)
- 21: 12,0 V
- 22: 3,6 V (P) / 1,3 V (W) / 0,0 V (Sb)
- 23: 5,0 V
- 24: 5,0 V

All values measured DC - GND

- (P) = Play mode both directions
- (W) = Wind mode both directions
- (PN) = Play NOR direction
- (PR) = Play REV direction (WN) = Wind NOR direction
- (WR) = Wind REV direction
- (Sb) = Standby
- (TA) = Traffic anouncement





CONNECTORS

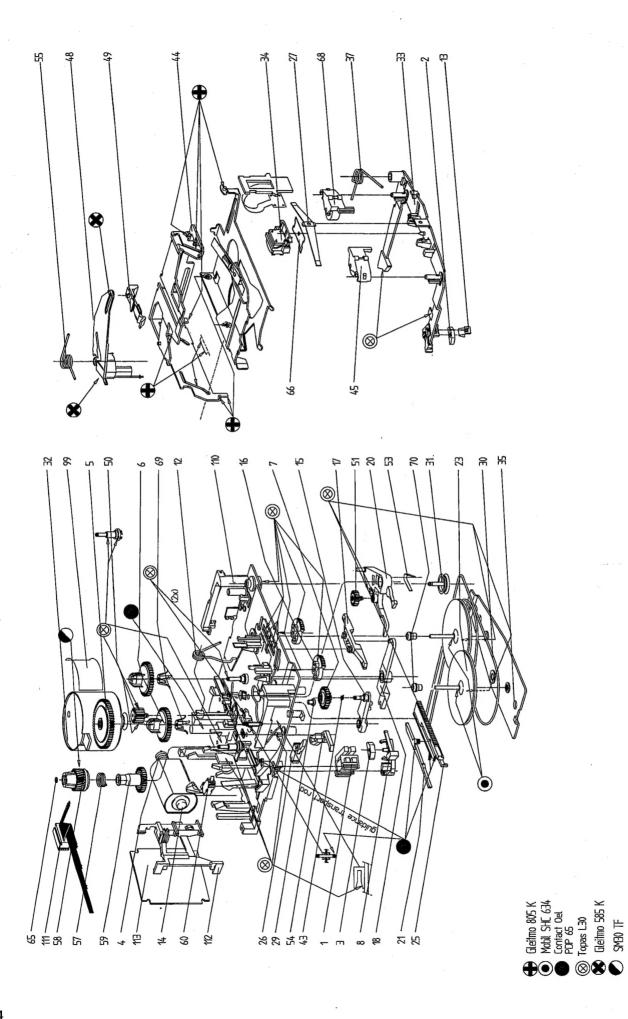
Control Connector Head Connector (View onto Radio-PCB) (View onto Radio-PCB) MONITOR 2 1 ME/FE (optional) 0 1 COMMON GND 2 LEFT NOR **ENABLE 4** \bigcirc \bigcirc 3 ON/OFF Switch 3 RIGHT NOR CLOCK 6 0 5 GND 0 4 RIGHT REV DATA 8 5 LEFT REV 2: Capstan -4: GND

Front of Radio 1

Deck Connector (Pos.1003) (View onto Control-PCB)

9	7	5	3	1
C) (0
0	_	_	0	_
10	8	6	4	2

- 1: Capstan +
 - 6: Servomotor -7: Magnet -
- 3: ON/OFF Switch
- 8: Magnet +
- 9: ME/FE Switch
- 5: Servomotor +
- 10: GND



SCA-4.4

PCS68 091

MECHANICAL PARTS

ELECTRICAL PARTS

1	4822 281 11051	DOUBLE ANCHOR ON SUPPORT 33 ANCHOR IN HOLDER 8 WHEEL IDLER CARRIER	2207	5322 122 32654	22NF10%Y7B 63V
2	4922 404 21092	ANCHOR ON SUPPORT 22	2401	1000 101 00710	1015 107
3	4000 404 01004	ANCHOR IN HOLDER	2401	4000 100 00107	1001 10V
	4022 404 21004	ANCHOR IN HOLDER 8	2402	4822 122 33127	2,2NF10%X/R 63V
5	4822 522 32868	WHEEL IDLER	2403	4822 122 33178	1NF 20% X7R 50V
6	4822 528 10776	CARRIER	2404	4822 124 23279	22UF20% 16V
7	4822 528 70658	ASSY	2405	5322 122 32654	22NF10%X7R 63V
8	4822 404 21087	FOR ANCHOR 2	2406	4822 124 41013	2,2UF 25V
1	4822 492 70556	FOR ANCHOR 2	2407	5322 122 32654	22NF10%X7R 63V
14	4822 361 30297	SERVO ASSY	2411	4822 122 33177	10NF 20% X7B 50V
16	4822 522 32869	ASSY FOR ANCHOR 2 FOR ANCHOR 2 SERVO ASSY NORMAL/REVERSE	2413	4822 124 23279	22LF20% 16V
	.022 022 0200		4110	1022 121 20270	22012070 100
17	4822 404 21089	DRIVING 16	2414	5322 122 32654	22NF10%Y7B 63V
20	1822 101 21086	ASSV SERVO GEARWHEEL	2/01	4922 NET 202034	9K20 59/ 0.1M
20	4822 528 81378	ELVALUEEL	2400	4022 031 20022	5K2U 5% 0,1W
20	4022 020 010/0	CNIOSE	3402	4822 051 20102	1K00 5% 0,1W
26	4822 2// 11215	ON/OFF	3403	4822 051 20332	3K30 5% 0,1W
27	4822 492 70557	DRIVING 16 ASSY SERVO GEARWHEEL FLYWHEEL ON/OFF FOR PRES. ROLLER 45	3404	4822 051 20472	4K/0 5% 0,1W
00	4000 500 40540	FIV MOTOR OO	0.40=	1000 110 10011	01/0.070
29	4822 502 12548	FIX MOTOR 32	3405	4822 116 40241	3K6 PTC
30	4822 358 31053	BELT, DRIVING	3406	4822 051 20123	12K00 5% 0,1W
31	4822 528 81144	DIVERTING BELT	3407	4822 051 20243	24K00 5% 0,1W
32	4822 361 30294	CAPSTAN	3408	4822 053 10399	39R00 5% 1W
33	4822 404 21088	FIX MOTOR 32 BELT, DRIVING DIVERTING BELT CAPSTAN FOR HEAD,PRES.ROLLR	3409	5322 101 11014	5K POTMETER
34	4822 249 30157	WITH FLEXPRINT	3410	4822 051 20153	15K00 5% 0,1W
44	4822 466 82631	FOR CASSETTE	3411	4822 051 20689	68R00 5% 0,1W
45	4822 528 81377	REVERSE	3412	4822 051 20183	18K00 5% 0,1W
48	4822 404 21091	EJECT	5411	4822 050 21008	1R00 1% 0,6W
49	4822 404 21092	WITH FLEXPRINT FOR CASSETTE REVERSE EJECT HOLDING CASSETTE	5412	4822 050 21008	1R00 1% 0,6W
		COUPLING ASSY ME/CR FOR CARRIER CLUTCH NORMAL			
50	4822 522 32871	COUPLING	7401	4822 209 32207	TDA3611
59	4822 522 10435	ASSY	7411	4822 130 32911	BYV10-30
60	4822 277 11216	ME/CR	7412	4822 130 32911	BYV10-30
65	4822 532 52348	FOR CARRIER CLUTCH			
68	4822 528 81449	NORMAL	AIDS	AND TOOLS	
69	4822 492 70926	UNDER CARRIER FOR FLYWHEEL CABLE, CONNECT FOR PCB PCB KOMPL.	100	4822 390 10107	ISOFLEX PDP65
70	4822 520 30539	FOR FLYWHEEL	101	4822 390 20128	TOPAS L30
111	4822 321 61954	CABLE, CONNECT	103	4822 390 10123	MOBIL OIL SHC 634
112	4822 256 92048	FOR PCB	104	4822 390 20027	GLEITMO 805K
113	4822 214 52077	PCB KOMPL.	105	4822 390 20128	L30 TF
•			107	4822 390 20139	GLEITMO 585K
			.01		SELLING GOOK